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FIG. 1A

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FIG. 1B

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FIG. 1C

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FIG. 1D


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FIG. 1E

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FIG. 1F

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```

FIG. 1G

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FIG. 1H

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FIG. 11

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FIG. 1J

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FIG. 1K

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FIG. 1L

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FIG. 1M

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FIG. 1N

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FIG. 10

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FIG. 1P

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FIG. 1Q

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FIG. 1R

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FIG. 1S

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FIG. 1T


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FIG. 1U

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 caaaacacaa aagactaaat taccaacatg aagaataaaa aggggggatat 168602170
 tagtatggat attataaata ttaaagtgtat aataggagca gactttgaac 168602120
 aagtttatct taatgatttt aaagagtaaa tgaattgaa aataga aaca 168602070
 ggaaggaata gaaaatctgt cttatatcaa ttagagaaat taaatattta 168602020
 aaacattcca tcaaaaaatc taggctcaga tggctttagc aataaattct 168601970
 aacaaagtgt taaggaataa agtatagcaa cttaatacaa actcattctg 168601920
 ttaaaagaat gaacatttgt ctatttagcc agcataacc t tgagaacaaa 168601870
 acccagtaag gacatttcaa gaaaaaata taaaccaatg tgattcatga 168601820
 atatttttac aaatttccta acaaaatact agcaaataa ttcagttata 168601770
 ggtgaaaagg ataatatatt ccaaccaa attagcttatt caaagaaggc 168601720
 aagggttggt taatagtgga aatttcacct c tcaataaaa aacatgctga 168601670
 aaaactagga cagcaaaacc aaagacatac acaacatcta caataaaatt 168601620
 atttgagcga gtaattcagt gaatccccag tagatgggtt caagactgtt 168601570
 gtggtatctc atctgtgtgg gagaaagcag agggaaaggca gctacggttc 168601520
 ttaggacctc gagaagaggc catc ccttaa attacccatc tctactcatt 168601470
 ggaaaataca gtggccaatc tgagaaaagc tgcaaaatat agaagagagt 168601420
 tctatcagat ccaattcatg gtaagtacaa aggaaccatg atgtaataat 168601370
 gactgataat acttggaaca ttctggggcc tataaactct tcaaacaaaa 168601320
 atgaggctct tttccta gga aaggctctaac attggttaaga aacttctggg 168601270
 agcagttgat cagaaaagga acaatagtag aaataaaaag agaactcctt 168601220
 gagaagtata atgttagaat tcaccagaag agtcaaatct tggaaaatac 168601170
 aaggccatgt ttttcattgc tttgcaaaaa ccagaatgag ctctagagtc 168601120
 ttaaatctta aaaaaaaaaa aaaaaaaaaa ctatttcaact gctccattct 168601070
 aaaactacag ggaattttat ttcaacttaaa aaataagcag ttaaaaggat 168601020
 tctgattgaa gcccatataa aggtttttta ataagaaaa gtatgagaag 168600970
 cagaactttc ttagaacaac tgaaaacata taaaaggaga taccacaaa 168600920

FIG. 1V

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gcaataaataac tgtaatagaa tagttgaaaa ctggctagaa gaatttaaga 168600870
acataataaat tataagagta caacataagt ctgaattttca aaaactcaga 168600820
aatttaataaa gagaatgtg ggatttgaaa ggaggggtga agaactcaa 168600770
aaagaactta acaatagaag tacttcaaaa taagtactgc caatata ata 168600720
ctgaagaaaa actaacttgt agaaattaca ctatccagt tcaagactta 168600670
ctgtaaaagct atagtaatcc agacagcatg atattttgtga aaaaatagac 168600620
acacacatca acgggacaga atagcgagcc cagaaataga cctatgcaa 168600570
tacagttaac tgatttttga caaatgtgta aagataattc aagggagaag 168600520
gaataatctt ttcaacaagt ggtgctgata cagaaaaatg aatctggata 168600470
caaatcttac atcttacaca aaattgaagt cgagatgatt catagaccta 168600420
catgtaaaat gtaaaactat aaagaaaata ttttcaaaac atgtatctga 168600370
taagaattt atatgcaaaa tatacaaaga ga tttaaaaa ctcaacagta 168600320
agcagatacc actctcccc tataaaggaa agaaatggac aaaagattca 168600270
aataggcact tcattgaaga ggatatacag ctggcaagta agcatacaa 168600220
aacatactca acagcttctt tcattagggg gatgcaataa ggtgtgtagt 168600170
gagatactac tacacaccta ttaca gtgggt gaaaatttaa aaaattgaca 168600120
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cagtaataca aaatggtaca accactttgg aacacagttt agcagctttt 168599820
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ggtaaaagtg ttccccctgg ggatattggg taacagttct gagacactgt 168599370
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aaccocacaa ttggggagt atgtcaaaag gacg taaaag caaacaaga 168598570
attcttagtg gccaaagctg gaacaatttg agtaacaaaa taattattga 168598520
attattacca aagtttaaat atccatgagt ccatactcac agaaataaat 168598470
gagtaataaa ataaatggaa taaagagaaa gatcccatac agaaaaattc 168598420
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aatcatttga tagtatgtac ttctgatatg atgcaatgaa aatattactt 168598170
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tgtatctgtg atgggatgct gaaataaaca cagaaagtaa aaactaagaa 168598000
aatctgaaaa aagtattgac tttagtgaat aataaatgca acaggattgc 168598000

```

FIG. 1W

```

ttcattaatt atgacaactg tattatataa gatgttaata ggggaaattg 168598 020
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aatcaaaatc tatttctaata taaaaagttt ttatgctgac ccatgaaacc 168597920
cttcttgatt tacagactta cgagcaaaat aaatgttttt tatgccaaaa 168597870
atacatatcat atatttttaat ctagatggat tttaaaaaga aatggatgaa 168597820
tactgcttta aaagaaatag aagatggaaa gagtattctt aagtcaacaa 168597770
gaaattaata tagagataaa gggattttaag agaaagttag agttaggcaa 168597720
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aacaacaaacaa aactgatagt actgataatt actattcaag aa aatgttct 168597620
taaaagatga ttagaaggta cctcgaggaa gtgcactgaa tgtttggaaa 168597570
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ttaaaggaa aaagtcttta agcattcaat cagagactca taatgaaaga 168597470
aaattggatt tcttgccctac tttttgatgc caaaa cctta tgtcagaata 168597420
caagtgaata acctaaaaaa ataaatgtg agcaacagca tttatattta 168597370
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aaaacgtttc tctaacaga actagactcc tgccgtcata gcttctatta 168596420
aacactgtat tggaaattct ggttctggca atgattcgaa aaataggaaa 168596370
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gaatgcaaat gacca agaaa agcaagaca gtctagaaga cccagatata 168595270
gaaggatact tgatttttaa caaagggtgc tctgtgaggc cacctggaat 168595220

```

FIG. 1X

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ggatggctctg tctaaaaaat tgtgctagag taattgggta accatatgga 168595170
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ccgggagtgct tggtttctgc ctgtaatctc agcacttagg gaggttgagg 168595020
tgagtggatc acctgaggtc aggagtttga gaccagcctg accaacatgg 168594970
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tttttcttaa tcaatgttac aatgaaggga cattgaagga aatgccatta 168593570
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FIG. 1Y

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gtacgccatg cctccattaa cccactttat gaggtcttta tgagattacc 168592320
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FIG. 1Z

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FIG. 1A2

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FIG. 1B2

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FIG. 1C2

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FIG. 1D2

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FIG. 1E2

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FIG. 1F2

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FIG. 1G2

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FIG. 1H2

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tcctgtagat ttcccagctt cctttgcagc taggtttgtg ccatgtgact 168564370
agttctggcc aatc atgtga gaagtggat gactcactgc tgggtcaagg 168564320
gagttaagag ctgatgtact tctccttcc ttctcttccc ctggcacagc 168564270
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gagaaataaa tctcctgaat ttccaacctc ttgggacatc tagggacaat 168564070
tatactgata ataacagtag ctgtaacagc taccacttat tgagcccttg 168564020
agaaacattg caaagccctt tacagatgtt aaaccattca gccctctcag 168563970
atatcccatg aggtacatgt tttgtatta cataataatt gtgttcctaa 168563920
aataatcttt aggttatttt ttaaaagggt tcttgcaaac atcttcagt 168563870

```

FIG. 112

agggtaaaaa aaactgctta gggatcagaa ttttaaagta tgaccacaaa 168563820
 cttctttctc ctatagaaat gtcaaaaaata aaggggtttt taa ttgctat 168563770
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 aatctcaggt caacttgacg ctaagccatc aaaataaatt gtgggttggt 168563620
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 aagaacactt ttaactggtt ttc ctgcttc cgatttcaac ctctccaaa 168561620
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 catgagccac cagcccccgc caggagaact ttttaaaatt caaaccagat 168561170
 tatcactccc ttgtcacaac ccttctctg gctccctctt actatctgta 168561120
 aaaagccaaa ccaaatctt ttattatgga taaaaggcc ctttgtggtta 168561070
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FIG. 1J2


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ctgtgttcta gcagtgaag cctgcttccc aaatgctcct gtctcctggc 168560970
cctccatgga gtacagagca catactgctc tctcagctca gaagtctcca 168560920
cctctgtctc ctaaaagagt ctagtcatcc tttaaaacta aactc aaaa 168560870
catcttccct gggaagcctt cttttaacaa ggactgggtt agctgctgct 168560820
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gaaaaccgtc tctactaaa atacaaaaat tagccaggca tgggtgtgtg 168558220
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FIG. 1K2

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cctgggacat ggaggttgea gcgagccgag attgcacat tgcactccag 168558120
cctgggcaac atagcgagac tccgtctcaa acaaaacaaa acaagagtca 168558070
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tgtagatgtc aggcaagtgc taattaaatt atcgacagt aacctgaaat 168555320

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FIG. 1L2

catgctggca	gtgactcagt	tcatgggggtg	tactgaattg	cctaaggtag	16855 5270
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caagattttac	agcctggctg	ggaaggcttt	aacattgcag	ggaggctcca	168555170
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ccactgtatg	cagttccctg	cgtcttgagt	actttggatc	cttacaatag	168552470

FIG. 1M2

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agaatcgctt	gaaccagga	ggcagagggt	gaagtaagct	gagatcatgc	168549720
cactgcactc	cagcctgctg	acaaagtgag	actccgtctc	aaaaaaaaaa	168549670
aaaaaaaaaa	acctat agct	gcataagcag	ttgtactcac	agccagatgg	168549620

FIG. 1N2

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aggacttatt tattctccat tcagttatata gaggatatttg acagctttaa 168549570
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tgcaatgtgg ccaaccaact tagccccaag tcaactggcg tggtatcatg 168549420
gtatcatggg ggagcagatt cccacacaaa aagttcaagg ctgctagact 168549370
ccagcttcca gggaacttgc tcccaggggc tgagtcctcc tctgaactct 168549320
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FIG. 102

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FIG. 1P2

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FIG. 1Q2

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FIG. 1R2

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FIG. 1S2

701 222

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FIG. 1T2

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FIG. 1U2

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FIG. 1V2

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FIG. 1W2

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FIG. 1X2

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FIG. 1Y2

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FIG. 1Z2

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FIG. 1A3

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FIG. 1B3

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FIG. 1C3

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FIG. 1D3

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FIG. 1E3

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FIG. 1F3

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FIG. 1G3

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ctaaacctct	agtctgggtt	ccttcattaa	tagcatctta	cattactatg	168492720
gtacatttgt	caaaactaag	aaactggctg	ggcacggtgg	ctcatgcctg	168492670
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FIG. 1H3


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FIG. 113

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FIG. 1J3

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tttgctcaca	gcaaccctgc	ttgtctatgt	gtgtgtgtat	gtgtatttaa	168486870
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FIG. 1K3

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agaggcagcg	tgccacagtt	gggtgttttag	ccaaagacac	gttcttctgt	168482220
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gtgtcaaa	aaaatgattg	tgtgtttggt	tccctccagt	tttcacgaaa	168482070
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FIG. 1L3

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FIG. 1M3

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FIG. 1N3

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FIG. 103

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FIG. 1P3

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gggaatacaa gcttgagcta ggagaagtgt gagccacagg gatctatga a 168469770
aaagagagag ggagacagac agcctcactc atcttttctg ctacgagcca 168469720
ggagcagggt ccagccatat gggcagccat gaggaggcaa ggactgtgga 168469670
gcctgctcag tgttaattag aagcaaagga aggcctggct gaagtggctg 168469620
caaggacgcc cagcagcgac catttcctgc acagggcagg c ggccttggga 168469570
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gaagttcaac ataaggatgg gtgatatttg gccactgct ttgacacagg 168469320
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tgtgatgcct agcaaatgg gatgccttg catgctacag ggagacaggg 168469220
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gtttgttaca caggtaaaaca tgtgccatgg tggttttctg cacacatcaa 168468670
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gttttaacaa atgatgtgtc tccaggggaa ggagagggaa gccgtcccc 168467770
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cctgccaatc catttgttga cccaaagtto atcaatgcat tcaatggttc 168467070
tttgacttaa gattaaatag gaccctctgt tgaattggc tgttagtttt 168467020
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FIG. 1Q3

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caaagatgtc agggaaaaata tacaagagga aattggaaaa tgtgattgag 168466920
ctgagcgtac gcttcctctg ccctggaggt ctgctggtggc ttattttattt 168466870
cttgcctctt tgctcttcag gcattttcca tccactgagc ctgatgttaa 168466820
acatgcacaa aaggcaggtg attccacgga tgctggctgc ttcccggcgc 168466770
ggcttcatgg gtgcacctct tggcaaggga cccaccttca gatcaaatat 168466720
gggggtattt ccaaattgag ctttgagggg tggagcccag aga aggagag 168466670
gtaagaagaa aaataggaga attaagttag aagcatgttg tgggccaaatt 168466620
aatcagggct aatgcatcag gcccagtatt gtttttgaa ctggattcgg 168466570
gagtaacagg atccctgaca agttgttagc agccctggga acgagtgtct 168466520
ctggagttca cagacgggtc tggaggaaac tccagc acag agcagcaagt 168466470
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gttctttccc tggccttgct gcccttcca ctggtgagag acgaggtcgg 168466370
gagctgaagc ttctgagcag ggtggcagc cccagcctga gcaggcctgc 168466320
cctggcccca ggagttagca cacatgggg a tgggtgggag ggggatgcca 168466270
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aggggtgctc ggtatttctg cagatatcat tcgagtgtct ctgtgaggat 168465370
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cacacaaaca cacacacact tgtcctctgt atccatgggt tccatatcca 168465170
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ataaaaaata tacaattttt aaaatacatc taataaatat ttacatagcc 168465070
tttacattgc attagggtatt ataagtaatc tagagatgat ttaatatatg 168465020
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FIG. 1R3

gaggaggcaa	ggtgtaggca	aggagaccaa	ggagtccctgg	aggcagatgg	168464070
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acacacttca	atgtgaatga	gactggggac	ctctcccaag	agcaagtttc	168463920
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catgttcacc	attcttctca	ggctcttcta	gctttggact	ggatccctca	168462720
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FIG. 1S3

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cgtcttcac agaaaccatc tacacttaac cctcctgtca tttgacacat 168461220
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FIG. 1T3

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FIG. 1U3

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FIG. 1V3

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FIG. 1W3

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FIG. 1X3

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FIG. 1Y3

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FIG. 1Z3

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FIG. 1A4

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FIG. 1B4

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FIG. 1C4

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FIG. 1D4

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FIG. 1E4

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FIG. 1F4

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FIG. 1G4

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FIG. 1H4

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FIG. 114

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FIG. 1J4

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FIG. 1K4

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FIG. 1L4

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FIG. 1M4

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FIG. 1N4

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FIG. 104

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FIG. 1P4

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FIG. 1Q4

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FIG. 1R4

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FIG. 1S4

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FIG. 1T4

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FIG. 1U4

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FIG. 1V4

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FIG. 1W4

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caggacacc agtacagggc atcctgtaat tcaactggca ctttagcctt 168372970
acccttcag gccaccatcc aggaaccatc ggtcaaaatc gcttcagttc 168372920

```

FIG. 1X4

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caccctcagt ctgggccata gttctagggg cttgggcaac attaaaaata 16837 2870
aggagcaacc aagcaagtta actctggatt gccccttccc cttatcgctg 168372820
ttcatctggc attgttaggg cttagcaactc tctgtgggtca cactgggtac 168372770
ctgagaaggtt gctgccaaat caccctctgg cctgtgtttg cctaaacatt 168372720
ccacaccgcc acttttttag ggtctgtttc agacaaaatt catgacact a 168372670
ggtccctttt gcaaagcacc cagctatgct ttttcccaca aaccctcggt 168372620
tgccctccttc ctcctgtaaa actcgattgg ttcacctctg gacaacagct 168372570
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gttcaaaaata tgttccagcc atcattaaaa ttatgttcat cttagcatgta 168372370
tttaattata ccctatatta cagtgttcct ttctcagtc cttcccgcgc 168372320
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ccagtttctt catcagttca atgcaaaata tgacagcaca taaatacatt 168371470
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gctgcagtag ctggaaaaata gtaagggtc agtgaatggt tgctattatt 168371370
gctttcagaa tagtttatct gtgaggcaaa ggaaggcgag gaatactttc 168371320
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aagttaaaaa aaaacaacaa cagcagcagc aacaacaaaa cagatggtga 168371170
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caaacccctg tgcttctctt catggctagg gaagtcaggc ccg tcatggc 168370920
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ctgcattata actgcattag ttaaaaggcca tctttagtct tgattactct 168370270
cggaagaaa cgctattaag aggggcttct tacttgagaa aagtgaagat 168370220
agttaaaact cttagcagagc aagtcagtg atattcagtg aagcagacag 168370170
gctgcagtg atgt aggcaa acacatgcag actatacacc caaaatacac 168370120
acttaacaca cacataggta tgtgtcatgc aaactactta cctatccaga 168370070

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FIG. 1Y4

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gattcctaga cactttcaac ctaatcttat tttaacatct attcgttttg 168370020
gatcaaaaag cacgtagaat aagggttgggt ccaaagggac tgcctgatgt 1683699 70
tccaccctt catccttgggt gatcagggca gagcccttg aattgtcaat 168369920
gagtcagat gacagactag gaaaacatcc aagatactga gacttggcag 168369870
tatacaggtt gtattagtct gttttcacac tgctttaaag acatacctga 168369820
gactgggtca ttataaaagg aaaaaaatat atttgagtca cagtttcaca 168369770
tggtcagga ggctcagga aacttacaat catagcagaa ggggaagcag 168369720
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cacagtgctt ggcactgagg aattgcctgt tgaagattcg acagcaaata 168368520
cctgttgaat ttctatggg cattttgggg aaagtataaa cttgaagtgc 168368470
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aagtgtctgg aacatagtaa atatttgcg aatgaatgaa tattacagct 1 168368220
gtgtcctttg ctatatcctg attatgtagc tgaagatga aagtagggat 168368170
atacactctg gtaatatcat gagtgtcatt tgcaaatcct ttccaaatgg 168368120
tgttaaacctg agttgaatgt attgtctcca ttctcattca accttggccc 168368070
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FIG. 124

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ctttcaaaaca tgaatttttag ttggacacag acatgcagtt catagcagag 168367170
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gagccttgtt tcacgtctgt gtt cacatct gtgttcacgg ccactctggc 168366070
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aaaggactag attttactgc atacatatgt agatacatatc ttgtaatatc 168365670
atgagtgcct tttgcaaatc ctttctaatt gagtttagtag gtaaacaaaag 168365620
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FIG. 1A5

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gggtaggcta agagaggagc tatagccagg agtctaaaac ttttcttttg 168364320
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tctcatccca gcttaggtta tcaaaaccaa gaattgttca tttttcacag 168364170
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catgctgggt cacacctgta atcccagcta cttgggaggc tgaggtggga 168361570
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FIG. 1B5

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FIG. 1C5

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FIG. 1D5

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FIG. 1E5

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FIG. 1F5

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```

FIG. 1G5

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FIG. 1H5

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FIG. 115

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FIG. 1J5

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FIG. 1K5

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FIG. 1L5

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FIG. 1M5

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FIG. 1N5

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FIG. 105

120/ 299

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FIG. 1P5

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FIG. 1Q5

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FIG. 1R5

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FIG. 1S5

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FIG. 1T5

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FIG. 1U5

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FIG. 1V5

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FIG. 1W5

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FIG. 1X5

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FIG. 1Y5

130/ 299

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FIG. 1Z5

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FIG. 1A6

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FIG. 1B6


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```

FIG. 1C6

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FIG. 1D6

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FIG. 1E6

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FIG. 1F6

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aactgtgttt taaaagagg tctctttgca gaaggcatc tgatcaagca 168273370
tacagatatg tttgttatta ccatctcact ttgcaattgt gatgtttttt 168273320
tcttcttttt tctttttttt ttttttgaga cagagtctca ctctgtcgcc 168273270
caggctggag tgcagtggtg c catctcggc tcaactgcaag ctccgcctcc 168273220
caggttcacg ccatttcct gcctcagcct ctggagtagc tgggactaca 168273170

```

FIG. 1G6

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ggcgccctgcc accacacgcg gctaattttt tttgtaattt ttagtagaga 168273120
cagggttttca ccgtgttcgc caggatggtc tccatctcct gaccttgtga 168273070
tccaccccgcc tcggcctccc aaagtgtgga gattacaggc gtgagccacc 168273020
acgcccggcg gcaatttgtga tggtttaatc catcattgat atatggccaa 168272970
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tcagccagag aagtaaaatac tctaaagtga cccatcatca aggggagaag 168272670
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acaatcattt gatgatgtgc tgccttcagc tttggaatca catacctctc 168272570
tgtgtcattt tcacaagaag agaaatgcag atttgtaaca aatttagtga 168272520
atgggttttaa agcaggttgt gcaaaaagga aggtgggctt ctt ttgggag 168272470
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tgaaccttat tgtctagcct acttttctga tgatttcagg ataaaggagt 168271270
tctgtaatga acctgcttg ctggtcctca gaggttgctt caagtgcagg 168271220
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agtcccttgt cttaaaagca gggagaagtc cctggagcca cctcaggaac 1 168271120
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cgtggactgc atggcattca gacagattag gagagggcaa gggtagaga 168270870
aggtoaggac gacccagggt actcgtctac cactgctaag catctgccat 168270820
agacactgtc ccttccaaaa tgtttgcaag gaataataat caaccattta 168270770
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tggaattata ttttaattta ttgaaaaata ggcattacat tcaaattgatt 168270670
caaaattcaa aagatataaa agggatataaa atgaaagtct ccttgcctct 168270620
cctgtgtaca gccaccaggt ttgtgatgtt tggtgaaaaa agaatatgaa 168270570
atgaaacccc ccacctctct ctctctctct ctctctctct ctatatatat 168270520
atatatatat atatatatat atatatacac gtataatata tatataaaat 168270470
agatatagat agatctatat atatatgata tatatcatat atctatatgt 168270420
atctatatag atagatatat gtatacttat atgtgtatgt gtgtaatgaa 168270370
acctcgtctc ctatacacac ata catgtgt atgtataaac agataattta 168270320

```

FIG. 1H6

tccatagaag	aaagactgaa	agaaataagc	aaaatattta	cagtgggttat	168270270
tttgaacaga	aaaactacag	gtaattgctt	ctacgcttcc	tgtgttttcc	168270220
aaaatgtgct	atgctatatg	tatttctttc	aggaaataat	aaatgcattt	168270170
ctttatcata	catgtaatac	acagtcattg	aagtcaactga	agcaagcttg	168270120
gacatgacta	gtcatcaaaa	agaggaaaat	ggaagtcatt	cgttttatca	168270070
caaaccacaga	actcacgact	gatggcactt	aacatgggtca	cacactacct	168270020
tcctggcctt	ttctttgcag	atacatgatt	atactttact	acataagaaa	168269970
gaaaggccct	ctaactgggg	aggatctagg	tacatttgca	accaatcaac	168269920
cagcaacgtg	gaagaggaaa	aaggatagaa	aggaattagg	ctcttatggt	168269870
cagcctgtca	gtgtgaggcc	ttatggctga	gactaccctt	ccaagctgac	168269820
caaagctgt	ggctctgcac	cgacacaggg	ctaggtaggg	cagaaaggct	1 168269770
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ggagaatcgc	ttgaacctgg	gaggtggagg	ttgcagtgc	ccgagatcac	168269470
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ccaaggacaa	agggcacttc	aaaaatacaa	tcattccctg	aatttcaact	168269320
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catgcacaaa	cacataatgg	atgcagggtat	tttaagaaaa	ttaaactctc	168269020
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attttttatt	ttattttagt	agagatgggg	ttttactatg	ttgcccaggc	168267520
tggtctcaaa	ctcctgagct	caggcaatct	gccgcctca	gcctcccaaa	168267470

FIG. 116

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gcgctaggat tacagg cgtg agccaccaca cccagccgga tatcaccatc 168267420
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ctactgggggt tcaacaaact cagttccctt gtcctccac ccagtgctcc 168266470
cacttcgatac agagaagctt cagtgtgatg atttctgtac atcaaggttt 168266420
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taattcaaac cagtgaacga ggtgctggga gggaccgcca tgattctctg 168266320
atctttatga attgtagagg gggatcatag tg ggagggtca gggacaataa 168266270
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gagacaggcc ttgtgttcc agccatgcat gcacagcaga aggaccattc 168266170
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gaaaactgtg ctggaaca gg aaatttcagc ttccagggac accagggtttg 168265870
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FIG. 1J6


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aaaaatacaa aagttagctg ggcatggtga tgcacaccta tagtcccagc 168264570
tataaggcag gagaatca ct tgaacctggg aggcagaggt tgcagtgagc 168264520
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cacacagtca ggacctgtgt tcttgcttta ggctatatga ctttgggcga 168264220
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cggctatttt ttatttttct tagtgatggg atttccctgt gttacctaa 168261870
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aatgctgaga ttacaggtaa gagccaccag atccagccca ctttttatgt 168261770

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FIG. 1K6

tttttaggttt	gcacctgtct	agaagttctc	tttgttttct	gttcttaagg	168261720
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gaaaagctga	aagagcaaaa	gggtaggaga	agaaaagaga	agccagaatt	168261620
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caaaagagat	taagaatact	tttacccaaa	tgtttggtatg	ttatggtaat	168261520
agccttctca	cataatgtct	tttaacctta	tacctgtttt	tctttgggct	168261470
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FIG. 1L6

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FIG. 1M6

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FIG. 1N6

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FIG. 106

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FIG. 1P6

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FIG. 1Q6

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FIG. 1R6


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FIG. 1S6

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gcagtacaat ttattatctg agacaatttg atttgtggac gaattttttt 168236720
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gtttgggttt ttttttcagc ttgtcctctc actacctatg tgagcttggg 168236320
caggtttctc aact cttagt ctataaaata gaaaaatac tagtgaggag 168236270
tccaggagg agaaactctg tgcctcgcat ttgtacgtt ctttctggtt 168236220
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FIG. 1T6

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tgcagcctct gcctcctggg ctcaagegat cttctgcctc agcctcccaa 168236070
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acattagtgt gcaacatgag attttgtgtc acaaagagcc tatggggaga 168233270

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FIG. 1U6

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FIG. 1V6

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FIG. 1W6

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FIG. 1X6

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FIG. 1Y6

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FIG. 1Z6


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FIG. 1A7

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FIG. 1B7

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FIG. 1C7

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FIG. 1D7

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FIG. 1E7

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FIG. 1F7

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FIG. 1G7

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FIG. 1H7

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FIG. 117

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FIG. 1J7

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FIG. 1K7

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FIG. 1L7

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FIG. 1M7

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FIG. 1N7

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FIG. 107

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FIG. 1P7

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FIG. 1Q7

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FIG. 1R7

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FIG. 1S7

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FIG. 1T7

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FIG. 1U7

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FIG. 1V7

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FIG. 1W7

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FIG. 1X7


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FIG. 1Y7

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FIG. 1Z7

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FIG. 1A8

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FIG. 1B8

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FIG. 1C8

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FIG. 1D8

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FIG. 1E8

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FIG. 1F8


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FIG. 1G8

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FIG. 1H8

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FIG. 118

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FIG. 1J8

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FIG. 1K8

aagggtcacc tgccctcacc cgtttctaccc ctctgccata gccccaatcc 168113520
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FIG. 1L8

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FIG. 1M8

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FIG. 1N8


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acattgcac ttggcagagc ggtcagcacc tgtcccttt ctctctgca t 168104970
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FIG. 108

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FIG. 1P8

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FIG. 1Q8

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FIG. 1R8

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FIG. 1S8

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FIG. 1T8

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FIG. 1U8

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FIG. 1V8


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FIG. 1W8

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```

FIG. 1X8

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FIG. 1Y8

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CGCCCGCTGC AGTAGCCCTG AGCCCATGGC TGACAGGCTC CTGCTACCA 168073470
CCCCAACCCA CGCTTCCAG TGC AAAGgta ggtgacgccc acacccccc 168073420
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FIG. 1Z8

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FIG. 1A9

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FIG. 1B9

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FIG. 1C9

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FIG. 1D9

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FIG. 1E9

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tctgggggta tttgtgacta tgattctaaa caacaagact taggacttca 168053920
gggaacccca agat ctgaga aagcccaatc acagaatctt agaaatttag 168053870
aatcatagaa tctctgaaac ttgaacttgt aagctcttag aatcttagaa 168053820
tctaagaagc aggagttcta gttgttgcct cagccagccc acccatcagt 168053770
ccacagatct tgattgtgtg gagtatagtg gggattggaa gatgggtttg 168053720

```

FIG. 1F9

attcatctcc tcaaggccct tgccatggac ctaggggaag aagatttgac 168053670
 actgagcaaa tatttagaaa agaagaagt tctaggcccc acgatttctgg 168053620
 ctctgttgct ggggttctga ggaaggaaaa ggctgctgga ggagagaagc 168053570
 agccccaccc ctttaggaat agaattgtggg tgacccttga ggggtgggtgg 168053520
 aatttggatg ggttgagaga aggaaggacg gctccactgg gggaagaaga 168053470
 agcaagttaa taagggtgac aagcagacat gagcatgtct tttatcgtgt 168053420
 ctctcttttc tattttcaca tcacaagcct agatctcatc accaggggaa 168053370
 atgccaagag gctctggttg ctcaatgaga ccaaatgaag ctt cagccct 168053320
 tccatgtgtc taccctatc ctatctacct catctgcccc atgccccctc 168053270
 agaatatgca ggtgggactt ttaggcagtc aagttacctg agtacaaggg 168053220
 tgagagatac ctccaggac ctccccgctt acttccaccc ccttgatttg 168053170
 acttcagttc actgctgatc tttacgaagt atggga tact gtgaggggac 168053120
 agggaagaat gaaggggcaa ggggtgggaa gagacatgta aatgcaaacg 168053070
 tgactactcaa acagagcagg ccaggcaagc agagtgtctt gggcatgccc 168053020
 gggaaggggc agggaatggg gatctgccc tggagaggag ataaattgcc 168052970
 tcttggtgca gtggacagca agctcagag g acacaggctt acaccagcac 168052920
 tggtcagaag tggcttaggg gccaccctgg ccaacatgggt gaaacccctg 168052870
 ctctactgaa aatacaaaaa ttagccaggt gtgggcacac tcttgcaatc 168052820
 ccagctactc agggagctga ggcaggagaa tgccttgaaac ccaggaggcg 168052770
 gaggttgtag tgagctgaga t tgcaccact gcattccagc ctgggtgaca 168052720
 gagggagact ctgtctaaaa aaaaaaaaaa aaagaaagaa aacaaaaacg 168052670
 tggtaagggg tgcagggtgt gggttggttg gagtgtctgga gagctaacac 168052620
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 cagaatcaat agaccaca catattaaaa tgcataaaat ttaactagaa 168051870
 gaaaaaggca agcatttgag aacaatggag aatgcagggt acagcaccag 168051820
 ctgcctctct ttagttgatg gagaagtact atatagggtcc ttgct accag 168051770
 aggttcttga accagcagca tcagcatcac atgggctgtt gttaggaatg 168051720
 ctagttccca ggccccaccc agactccctg aatcagaaga cacattttaa 168051670
 caagatccct ggggtgtttg tatgtctatt aaagtttgag acttgtctgg 168051620
 attgagaggg ctgtagcatt ttaaaagaaa aagaagggt ca atacatttgc 168051570
 ctcccgacct cactgctta gtctgagagt gagaatagct tccctaattc 168051520
 ttaataaaga tctcaccagt agccttgaag tccaggctta aaatattgga 168051470
 ttttatcttg taagtattgg ccagctatta ttgccttgga gaaagtcata 168051420
 tagcttaagt tgttctgcaa ctacttttta gaattcaaga gacacacaga 168051370
 tggcttctg ggccaagtgt aacacagtag cagaagtata catggtgctg 168051320
 tattgagcac atgccccca aaggcattct caatgtgttt ccttaaaaga 168051270
 ctgggtgaac atgtaagttt gtacttccag tgcagcaata ggttatgtat 168051220
 ttcaaatgtt ccaatcaagt aaa cgtgaat tggtcagatc ttagcggatt 168051170
 tcaatttttg agcataggcc agtaagtctc cagtttcagg aacttgttcc 168051120
 agtcaggagc acatcacccc ctccgtgtct tacctagcta tgaatctaca 168051070
 gcctgcatca tgctctgcca accacaacga tgcagtgagg gttgccactt 168051020
 gtggattcca cccac ttct atccattcct aaagaggaga gggaggagag 168050970
 ggtagaggga gaacatccc tttgccctga ttcttccgtg gggctgctta 168050920
 ttagacaatc taagagttta gagagcttgc ttccccccaa cctcacctc 168050870

FIG. 1G9

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cctgcctttg tcacetcctt ctgccatgcc gcctcctcct ctgacttggg 168050820
taggtttgtg ctattatatt tacctgcccc ctagaattca gctgtttggg 168050770
ccagaaaggt acacaggcct tgcagaaggc agaagcgcca gtaagcattt 168050720
gcttatatgt gcctgtgggt gcacctaagc ctctgtgact cagccccctcg 168050670
gtgcattcag gtgtgtttct atgtctgggt tttggttgaa tgttgcccc 1 68050620
gacagaggag cccagaaactg catgtttctg gccacactc aaggaggcca 168050570
ggtttttagct ggggcagcct cctctggcca ggtttttaac ctgtctaga 168050520
aggggcaata atggaattgc tgacgcacca ctcttttagg aaggggccaga 168050470
ttggtgtgca gggcctgggg cagagcaggt gttcccatcc tcttg cccag 168050420
gtaatatgag ccacttatta aggcagaaga gatttttgcc tttctcatcc 168050370
tgggtctgaat ctgagagtgc aaacagtatc gtattcctct tcattcatct 168050320
tctacatgtc atgttgaata tttaacgttt aatgcactac acaaagcata 168050270
tcatatcatt tttaaagcaa ccataagagg tggagtta tt tatcaattgc 168050220
atttaaatgag gaagaaactg aaacacagag aggtaatgag tgactgacc 168050170
acttagaaca gtttatgaca cgcaagtgtg aactaagtat tatcactcga 168050120
tgggggtgtg ggtgcctcag ggaagtgcct gcagtgcct ctgccctctg 168050070
gtttcttctt tacgatggag tatggtagac cctcccttac agggtcctga 168050020
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ggaaacctgc tgtggagcca ggctttgcag atcccaaagg aacttgggta 168049770
gatagaagag atggggagag gccacctgct gaggggggct ggagagtgc 168049720
tgccctgcaag ctggctttgc cttgaggaa cgccttgcc ctgcctatgt 168049670
tcagCTGCG AGTGTG TCCC TGGCTACAGC GGAAGCTCT GTGAGACAGA 168049620
CAATGATGAC TGTGTGGCC ACAAGTGCCG CCACGGGGCC CAGTGCCTGG 168049570
ACACAATCAA TGGCTACACA TGCACCTGCC CCCAGGGCTT CAGgtaaggc 168049520
aggagggcac ctgaggaagg agacagcctg gggcagggtg caggggctgg 168049470
ggctgacttg ctaagggtgc cagaatggag actcaggccc aggtggctgt 168049420
agccccgggt ctgggtgatg cctttattcc cctgatacct ttgcagtcct 168049370
tacatgtccc catgagggaa atagagcagg tatttgtaat cccacattgt 168049320
agatgggaga agagctactt gtggcaactc cacgtgaaag ctgggcttag 168049270
gttcagcttg tgtaatgtca tgcctgggta ggattccatc taatggaaga 168049220
tgccaccatc ttgaagccca gcttgcaagg tggaggtagc cacatggcca 168049170
cactggccag aatcttcttt ctaggatgaa gaacaacat gatggtcct 168049120
cagtggtaac ctctattcta cttctgttgc tatgaatttg gctactctag 168 049070
atgctttata taaatggaca catacagcat ttgtccttgg ttgggcttat 168049020
ttcacttagt atatagtgtt ctcaagattc aaccatgctg ttgggtatgt 168048970
cagaattccc tttgttttta ctgctgaaca atgttccatt ggatggatgc 168048920
gccacatttt gtttatccat tcactcttcc atgggtagga atgtgct ctt 168048870
ttaagaaatc acccccaggc aattctgatg acactgaagt ttagggacct 168048820
ctactctagt ccaactccat gattttatct cttggagccg gagtcttgct 168048770
ctgttccgca gcctgaactc gcaactcctg gcacaagcga tcctcccctg 168048720
taactgggac tacaggctca tgccaccatg gctaccccaa ctctetttaaa 168048670
aatgggaaat atgggactta gagaaggaaa aggtcttgcc ccggttagtg 168048620
gcagggtctg aactagcccc tagaactagt gtcatttccc atctcactct 168048570
acctctctgc tcgaggttct ttggcctgag taactgtgat tgtctcctct 168048520
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CTTCTGTGAA CACCCCCAC CCATGGTCCT ACTGCAGACC AGCCCATGCG 168048420
ACCACTACGA GTGCCAGAAC GGGGCCAGT GCATCGTGGT GCAGCAGGAG 168048370
CCCACCTGCC GCTGCCACC AGGCTTCGCC GGCCCCAGAT GCGAGAAGCT 168048320
CATCACTGTC AACTTCGTGG GCAAA GACTC CTACGTGGAA CTGGCCTCCG 168048270
CCAAGTCCG ACCCCAGGCC AACATCTCCC TGCAGgtgtg tcccgccctg 168048220
ccctgcctt ggaaggacct caacatgccc acaagctctg atagttcaga 168048170
aaattgctgg aatgccccat cttaacagta aagcaccatc agggacaaca 168048120
ctcagcttga ggacatct gg accaactcat ccagagagtt ctatagataa 168048070
ctcctgacca gctctegctg caaactgcag ccccaacttc cagcctcatt 168048020

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FIG. 1H9

cactcattcc	tccagaaaat	atgcattcaa	ctattgtaca	ccagacactg	168047970
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gcctatccac	taatccaaga	atctcattct	gggtggctgg	ctgtgagtgc	168047870
aacttctgaa	accagcaact	ttcaaccttg	gcaatacttt	agaatcacct	168047820
cgagaacttt	ttaaattatc	tttggccagg	tgtgtgggct	catgcctata	168047770
atcccaacac	ttaggagggc	tgaggtggtg	ggatcacttg	aggtcaggag	168 047720
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ggcggaggca	tgagaatcgc	ttgaacctgg	gaggcagagg	ttgcagtaag	168047570
cggaggtcat	ggcactgcac	tccagcctgg	gcaacagggc	aggactc tgt	168047520
ctcaaaagaa	taaataaata	aataataaaa	ttatctttgc	ctgggccccca	168047470
cccgcaagag	attcatgtgt	agctagtctg	gggtaaagtc	tagacactgg	168047420
aatttttttt	ttaattcccc	agatgactct	tagcatagtg	cctggttcct	168047370
agcaaacatt	gaaattaatta	tcattgttag	cattttcttt	ataactctta	168047320
ttagccaggt	gcagtggctc	acgcctgtaa	gcccagcgct	ttgggaggcc	168047270
aagggtgggtg	aatcatttta	ggtcgggagt	tcaaaaccag	cctggttaac	168047220
ggtaagcacc	cgtagtccca	gctactcagg	ag gctgaggc	accagaaacg	168047170
cttgaaccca	ggaagtggag	gctgcggtga	gccaagactg	tgccactgca	168047120
ctccagcctg	ggccaagatt	ctgcctaaaa	ataaaataat	aaataaataa	168047070
gacttattat	tcttctttat	acagagaaac	caaagaaggg	cctgaacttg	168047020
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gtaaaaatgt	gttgaactgg	tttgctcagt	cagcacttgc	tgagggtgtaa	168046870
gtctaggcct	tacctctgg	ggatttactg	actagatgga	ggaggaaaga	168046820
tggacatgaa	tttagacg ca	gcacagattc	agaagctgct	gcctggaaga	168046770
gggctctgtg	agatgggag	ggaaggttca	gtctcaggta	agcccttact	168046720
aacacgcccc	ggctgctttc	tccagGTGGC	CACTGACAAG	GACAACGGCA	168046670
TCCTTCTCTA	CAAAAGGAGAC	AATGACCCCC	TGGCACTGGA	GCTGTACCAG	168046620
GGCCACGTGC	GGCTGGTCTA	TGACAGCCTG	AGTTCCCCCTC	CAACCACAGT	168046570
GTACAGgtaa	gggcctctct	ccctcctgac	ccactgtgtg	ttcctccgca	168046520
tccttctgcc	tctgggcctg	caactcagaa	gggggattca	ggagaactcg	168046470
gggtgccctt	ctcccgcctt	ctaccacgca	catgtgcgca	cacacacact	168046420
tctcctcac	cgagtgggtg	gtgggaggga	gaaaggcgctg	tcagagggaag	168046370
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agataaacag	gcagctggct	actgtgcggg	agtgcgcgct	gcagtgggga	168046270
cgaggctgct	taatgagggtg	cccttttcaa	aatgtcatct	taatctttta	168046220
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gaaactcaag	ggcagggagg	gagcaggggc	accccttagg	tgactttcaa	168046120
accatcctga	agggcagctt	ttcctaaact	tcagcctctc	cagcagccac	168046070
cctggcttgt	gtgtgatggg	tgtggcagct	ggactttcac	ttcagatgc t	168046020
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ctcggtcac	tgcaacctct	gtctccaga	ttcaagcaat	tctccgcct	168045870
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gctaattttt	gtatttttag	tagagatggg	atttcacat	gttggccagg	168045770
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taaatattaa	aataaaaaat	tagttataaa	tatttttata	atagtaataa	168045520
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tcttccatta	aaatcttata	ttaaacttaa	gaattgtaaa	tacttagaag	168045270
caaaaccgcc	ctgcagtggt	gaagcaaaga	tccccctcc	acacacactg	168045220
					168045170

FIG. 119

ttgtcaaggc	ccttgataaa	tcattccaaca	aacccaattt	gaaagccatt	168045120
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ctcagttttt	ccccctcccc	cttcccatgt	aatgtgagca	atagcaggat	168044470
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caatcctcag	gggcccaagg	ctctagcaat	tccagattaa	aatgattttg	168043970
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ggctaggtgc	agggggccaca	gagctaaaca	aacacagtcc	agggaggaag	168043820
acacacatat	caacaagcag	tggttccaca	gcaaaatcaa	atcattctca	168043770
ctggagacac	tggtgtcatg	ctacaggaac	accaatgatg	aagcaaaagt	168043720
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gcatcagtac	aataacctct	agccacccag	gaaggccacc	ttggcctcag	168043120
ggccagagtc	agggagccca	gccaaagcta	ttctaactgg	gggagttggc	168043070
agccaccagc	ttttggctca	ctaaggccca	ctgaccagct	tcagagttag	168043020
gatgtcagcc	tgggttccca	gcagggacct	gcaggctaga	ttccatggtc	168042970
tccattctgt	ccatgcctga	tgttgttcat	ctgcacagcc	ataatcacaa	168042920
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actgccaaag	tcctttgtctc	attggatcct	cactcctgtt	ttagggatga	168042420
gaagcctcat	attagaagcc	cagtaagtgg	cagagctagg	attttaaacc	168042370
gggtcagttt	tccacccaaa	ccagctctcc	caccgtgctg	gctccgggac	168042320

FIG. 1J9

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atgaaagaca gagccgagag agtgtgggct gtgctacagg agtaggggggt 168042270
tgctgcagtg gggcctgagg tctccgcttg ctgcctaccc gaaatcccag 168042220
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FIG. 1K9

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FIG. 1L9


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FIG. 1M9

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FIG. 1N9

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gtctggggtc aggttttggc ccacagtcta tcagtt tgcg tcacttagtt 168029520
ttagttttga ctttaggttt cttgaaggaa gggaccaagc ctgctttttg 168029470
catcattata tcctcacggc ttaggtgtaa gcctgtcaga gagcctggta 168029420
caggaaaggc acctgtttgt aaaatagatg ggtggatgga ggggagggtg 168029370
ggcagatgga tgagtgaata aattcttac a gtcttcagag cacaagtatt 168029320
tcaaagcagc ctacctggga actgtcatg gtccgtctgg ccacctagac 168029270
caccaatgcc ctgacttcta tgccctctgc agAGAATCCG TGCCTGGGAC 168029220
AAGTAGTCCG AGAGGTGATC CGCCGCCAGA AAGGTATGTC ATCATGTGCC 168029170
ACAGCCTCCA AGGTGCCAT C ATGGAATGT CGTGGGGGCT GTGGGCCCCA 168029120
GTGCTGCCAG CCCACCCGCA GCAAGCGGCG GAAATACGTC TTCCAGTGCA 168029070
CGGACGGCTC CTCGTTTGTA GAAGAGGTGG AGAGACACTT AGAGTGCGGC 168029020
TGCCTCGCGT GTTCCTAAGC CCCTGCCCCG CTGCCTGCCA CCTCTCGGAC 168028970
TCCAGCTTGA TGGA GTTGGG ACAGCCATGT GGGACCCCTT GGTGATTCAG 168028920
CATGAAGGAA ATGAAGCTGG AGAGGAAGGT AAAGAAGAAG AGAATATTAA 168028870
GTATATTGTA AAATAACAA AAAATAGAAC TTATTTTAT TATGGAAAg 168028820
gactattttc atcttttatt atataaatat attacaccat ctgcgtatat 168028770
gtaccatata gtgagttatt tttaccaagt tttgtgttgt gtatttgt

```

FIG. 109

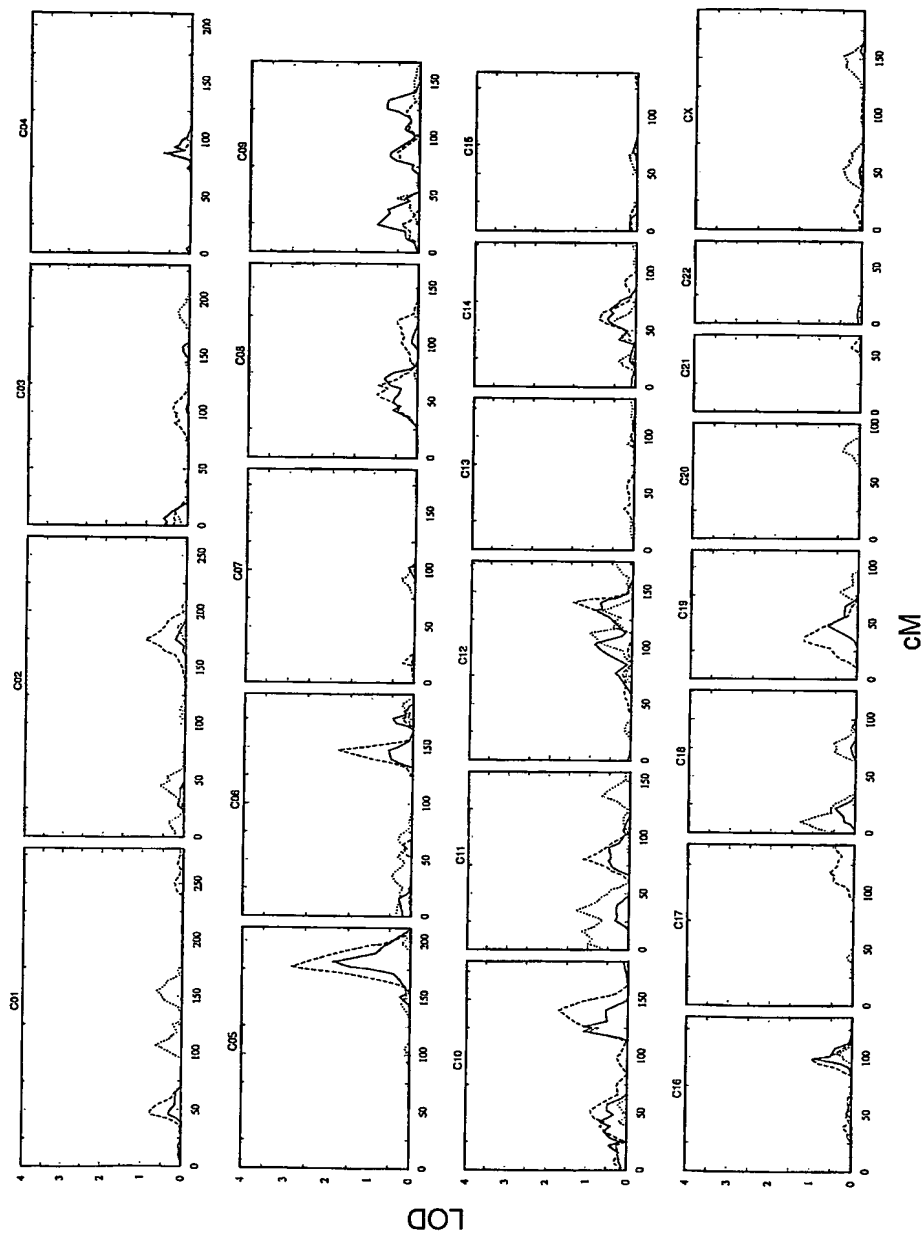


FIG. 2

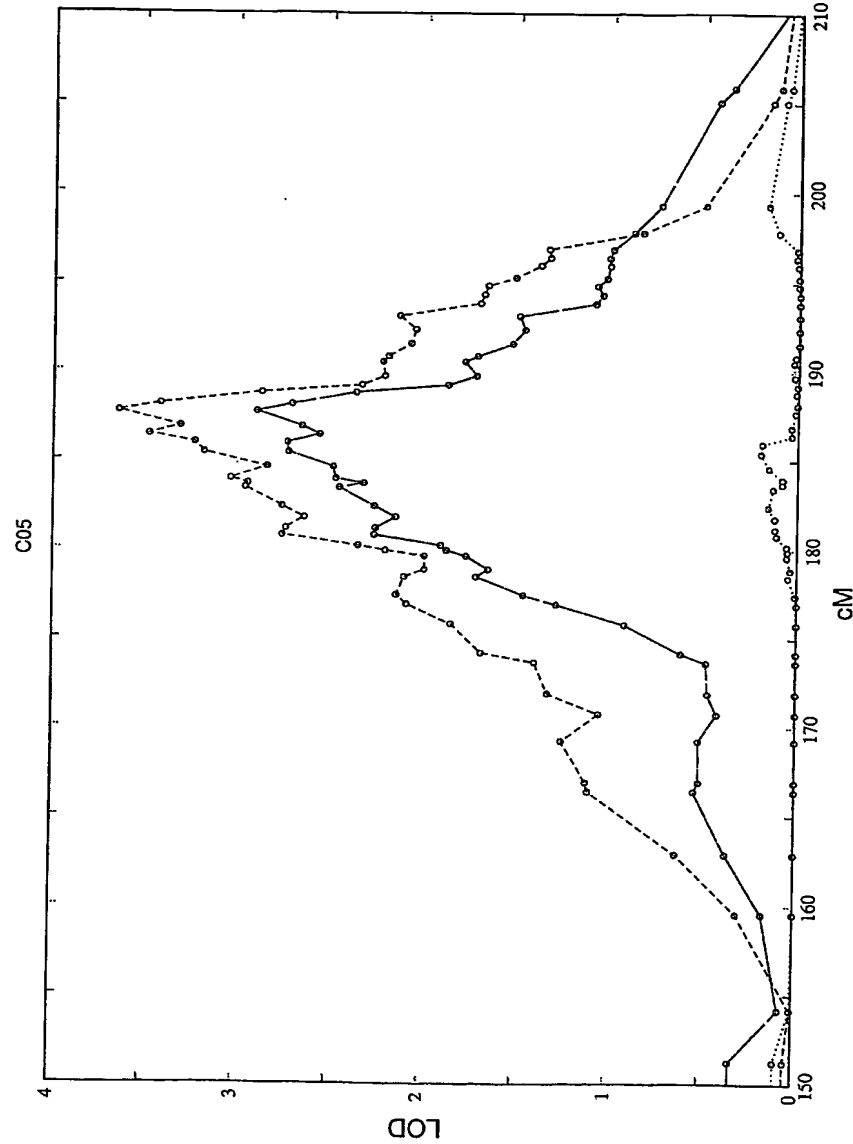


FIG. 3

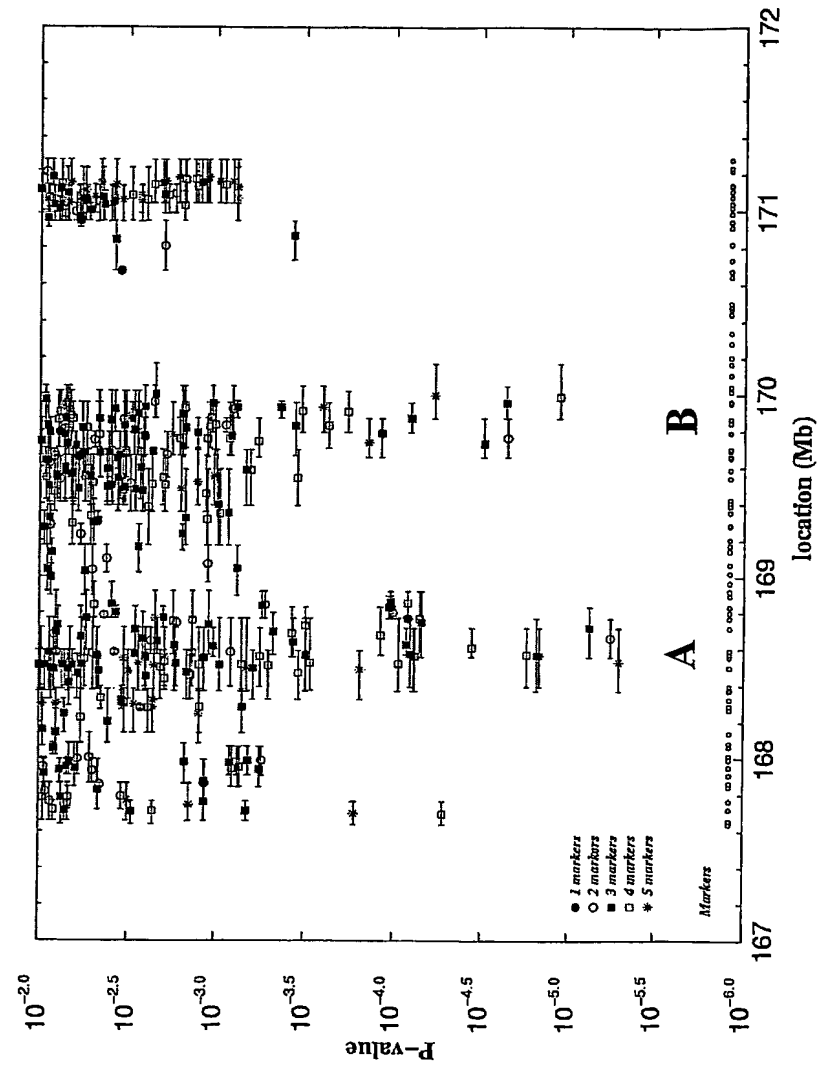


FIG. 4

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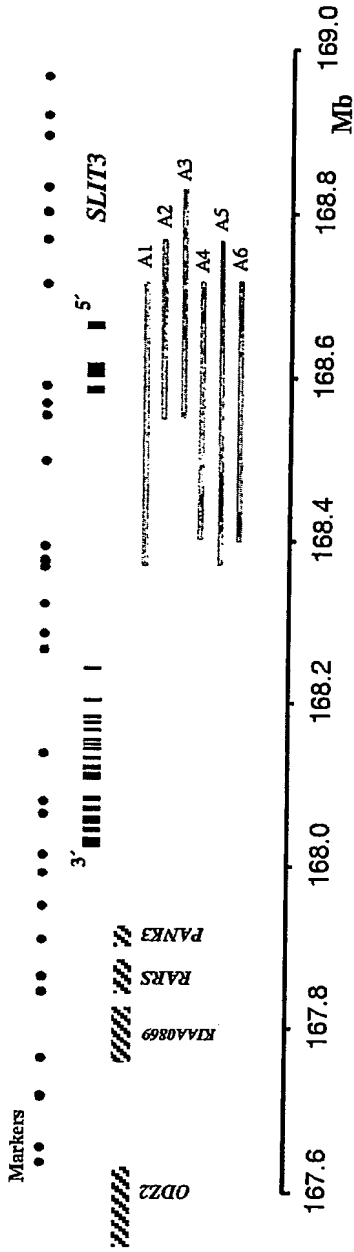


FIG. 5

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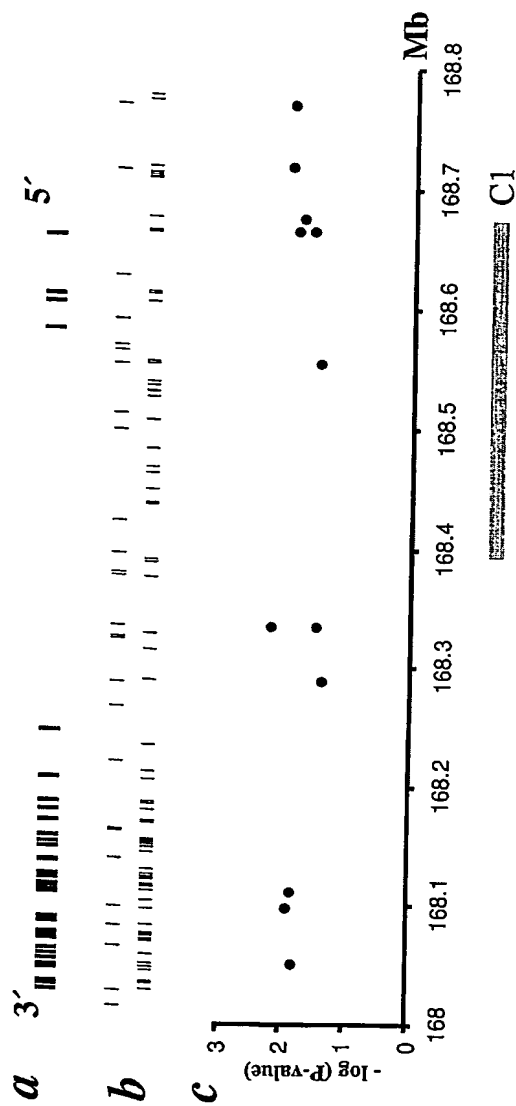


FIG. 6

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DG5S5: 167638990 - 167639163

TCCTCAGAACAGGTGCAACACAGTGTGTTTTGCTGGGGAAAAGGGATGTC
AAGCAATCTATGACGGGGGTGCAGGGAGTCTGGGGAGAAACACAAGGAAG
TGTGTGTGTGTGTGTGTGTGTGTGTGTGAATGTGTGTGTGTGTGAGAG
AGAGAGCTGGTGTGTTGTGTTCCA

D5S671: 167657904 - 167658237

GGAATGTGCCAAGACATTCTTTAGGGTTGGTAACCAGAGACGCTATTTTG
TCCTTGGTGGCTAAGAAATCACTTTTCTGACTGAAGGNCCATTTGACTTA
CTTCTTTTAAATTCAGGGGAATGGGTGGGCATCTCCATGATTCAGGTAAG
GAAAAATCCAAGGNAATAAACACACACACACACACACACACACACACAC
ACACACGGAGTAGAAATTTTTAGTGCAATTTTTGTCTCACAGCATTAAAT
TAATTGCAGGGATATAACTACCTTGGCAGAATTTTTCTCCCAACCCAC
CACCCCCCGGAATAAGTTTGGCTCTTTTCAGCT

DG5S870: 167719773 - 167719939

TGCCCCACTCATAAGATGCTGAGGTTACAACCTGTTAATAAGATATTAAGAT
ACTGTCTTTTTCTTCCTCTTTCTCTTACACACACACACACACACACAC
ACACACACTTTTTGGGCCAACTGGAAATTCATACATTCTCCCCAGCACTG
GAGCTCAAAGCGTCTG

DG5S85: 167721558 - 167721918

TTGTTGTTGTTGGTGGTGGTGGGGTGTGTGTGTGTGTGTGTGTGTGTGTG
TGTGTGTGTGTTTCGAGACAGACTCTCACTCTGTCACCCAGGCTGGAGTGC
AGTGGCACGATCTGGGTTCACTGCAACCTCTACTTCCTCAGCTCCAAGGA
TCCTCTCACCTCCACCTCCCAAGTAGCTGGGACTACAGGTACGCGCCACC
ATGTCTGGCTAATTTTTTTGTATTGGAGAGACAGGGTTCACCATGTTGC
CCGGGCTAGTGTGCACTCCTGAGCTCAGGTGATCCACCCACCTCAACGT
CCCCAAGTGCTGGGATTAGAGGCGTGAGCCACCACGTCTGGCCTATACAC
TATAGAGTTT

DG5S90: 167766290 - 167766502

TCTGGACAGGACCAGGAGTTGGCTGCTGTCAGCCTTTGCCCCACCTCTCT
GTGGCTACTGGGTATGTGAATCTCTCAAGGCCTGAAGAGAGGACAGCTGA
GGAATTTGGAAATCCTAAAACACATGCATACACACACACACACACACACA
CACACACACACACACACTTTCTTTCCCTTAAAAAAAAAAAAAGATTTCAT
TCACCGTGTGCA

DG5S874: 167846718 - 167847065

CTGTCTACACTACCCACCCATTAGTCACTTATTAGCCCTCTGAATTACTG
GATTGAAAAAACATAGTATATATATAGGGCTTGGTACTATTACGGTTTC
AGGCATCCACTGAGGGGTGTTGCAATGTATCTCCACGGATAAGGAAGGA

FIG. 7A

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CTGGTATATTAACACTTTTATTTGATTTACAAAATAAAGGATAGTTTATA
TAGTTCTGGGTAAAATTAATTAATTAATTTAAAAGGAAAAAAGATAAAGG
CAAACTTTAAGCTTGTTAAAAATTAAGTAAAATAATTTGGATTATTTAAT
TGGACAAAGAGGACTGGCTTTGCCAATGAAACAATATGGCCGACATG

DG5S88: 167864864 - 167865059

GGACCTTCTTTCTGCCCTAAAACCGCAATATCATTATAATAACAAATATA
TATATATATATATATATATTTTTTTTTTTTAAAACAATCTTGCTATGTTG
CCTAGGCTGGTGTGGAACCTCCTGGCCTCAAGTGATCCTCCCACCTCGGCC
TCCCAGAGTGCTGGGATTATAGACATGAACTACCATACCCAGCCA

DG5S7: 167910343 - 167910651

CACAGCCATCAAGTTTCCAACCTTACTGCCTCACATATTAAGATGATTTTT
TTAAACAAACTTAACAGGCGATGGATACTCCATTCTCCATGATGTGCTTA
ATTACATGCATGCTTGTATCAAAACATCTCACATACTCCATAAAGCCTG
TAATCCCAACACTTTGGGATGCCAAGGTGGGTGGATCACTTGAGCCCAGG
AGTTTGAGAACAGCCTGGACAACATGGCGAAACCCATTTACACACACAC
ACACACACACACACACACACCACACAAACAAAATGAAACAAACACCTA
ACCAACAA

DG5S6: 167952553 - 167952858

TCCTAACGGCTGCTACCACTAAAGATCTTAGCATGGTGTGTGTGTGCGTG
TGTGTGTGTGTGTGTGTGTGTGTGTGTGTGGTGGGGCTATTCAGTAAG
GCTAGAAGTAAAAAGCTAGTAGAAAGCCCATGGTGATGGAGAATGGAGG
AAGACTGATTAGGGAGCTCCTCAGCAGTATAAGGAAGGACTAAGAGCACA
TAAGGACAGGATCATAGAATTCCGCATCTCAGGATTTTTGAGGCTGCCAC
TGCCTTAGCTGTGAGGCCAGTGCATATAAGAATAGTTTGCACAGTTCTGC
TGTGG

DG5S87: 167992779 - 167993149

CCTCTGGGATTAGCCTCTCAGGGTACAGATATAACGATGATTGAGTTGGC
TTATGTATGTGTGTGTTGTGTGTGTGTGTGTGTGTGTGTGTGAGAGAGAG
AGAGAGAGAGAGAGAGAGAGTACAGAGAGAGAGAATGAGAGAGAACTGGAA
GTTGTCAACAAGAAGAGTCAAACCTCTGTAAAATATTTGAAGAGATTTATT
CTGAGCCAAATAGGAGTGCCACAGCCCCGGGAGATCCTAAGAACATGTGC
CCAGAGTAGTCAAGCTATAGTTTGGTTTTATACATTTTAGGGAGACATAA
GACATCAGTCAATACATGTAAGATGCACATTGATACACTGGTTTAGTAGG
GAAAGGTGGGACAACCTCGAA

DG5S91: 168014827 - 168015078

GGTGCCAATTAAATCCAACAAGGTAGCTGAGTGTGGTGGTGCACGCCTGT
AGTCCTAGCTATGCAGGAGGCTGAGGTGGGAGGATCACTTGAGCCTGGGA

FIG. 7B

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GGTCGAGGCTGCTGTGAGCTGTGATTGCACCGCTGCATTCCAGCCTGGGA
GACAGAGCAAGATCCTGACACACACACACACACACACACACACACACA
CACACACACACATTCCAACAAGGTAATGTGTAGGAGGAAGTACCCGAGCT
T

DG5S92: 168065529 - 168065864
CAACTCCTGCAGCCCTTTACGCCAAGCACAGAAATCCAGGAGGCAGAGCC
TAGCGCTTGATGACATGGTAATTGGGCCTGGAAGTGGGGATTTCTGTAC
TTACCTCTCCTTGAAAAATAATCACTATTGCCAACGCCTGGTTAATTAGC
CTGATTCAATTCTCTTCAGCCTCATTTTGCTCAAATCTACCAGATTTGTG
GTGCTCCTTGGTCCTCCACCACACTTTCTACCCCTCATCCCACTTTGTGT
GTAG
GACATGGCCAGGAATCCTGACTGGCTTCCTTTAAA

DG5S491: 168081175 - 168081342
AAGACCACCCTCCTGTTGTGCTCTCCTGAAATGTATTCATATCCACCCAT
AC
ACATTCTCTCTCTCTCTCTTTCTCTCTCTCTCTTAAATGTCAGTTTTT
TCTTCCTGCTTCCAGA

DG5S9: 168139425 - 168139680
CTTGACATTGAGGGCCTTCTGAGTACATCATCTTGTCAAGAAACACTGAA
CTATTGAGTACACAACAGGTCAGAGGTGCCCATTTGATAGCCTGAGGATG
GAATCCTTATTGCAGCATTTTGCGTCATGCCACATATATGTGTTTTTCA
ATCCTCCTCTGTTTTAAAAAATTGGAAAATTTATACAACACACACACACA
CAC
CATCA

DG5S876: 168266982 - 168267134
AGCCTCTGACTCTCCTCTGTGGGGCTAATCCAGAAAATCTTACTTTAGAA
ATAACAATAATAATAATAATAATAATAATAATACCTCATTCATCTTTACT
TATCATGTGCTAGTATGTTTCTAAGCCTTTTGGCATAGCCTTCAATGTCC
CT

DG5S97: 168286866 - 168287096
CTCTTCCCATGTCTCTGCTTCTCTCCTTCCTGCGGGTTGGGACCCAGTACC
CTCCATCTCTCTCACTCCTCCCCTCTCAAACCTTCTTTTAGGAAAGGAG
TCCAAATCGACCACTTACACCTCAGTTCAATGCAAGCCAGTATAATTAAT
AAGGAACATTTAAGGGTGTGTAAGGGTGTGTGTGTGTGTGTGTGTGTGTG
TGTGTGTGTGTAGCTCACTCTGCCTCTGCC

FIG. 7C

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D5S2052: 168324273 - 168324633
GATCACCAGGGAATCTAGATGGAATCCATAGTNCTNCCCTGCAAGAATGC
TGCAATTCTGTACCGTGGAGGNGCCAACAGAATCACCAGGCTCTGTGACT
CAGTCACAACACCCTGACCTGCCCTGTCCATTCTCCATATCATACCCAG
AGTGGTCTTTTCAAAGCACAGCTTTGACCAATTCTCTGTCTTTCACACAT
ACACACACACACACACACACACACATGCGTGCATGCATGCCTGAAATA
GTATAGTATTGCTCTTAAGATAAACATTAANGTTCCTACCATGGTACAGA
AAATATATGTNGTTAGGCCCCGTGGCTCTTTCTTTTCCAGACTCCTCTTA
CCCTTTTGTG

DG5S879: 168369069 - 168369202
AAATCTTCCATTGCAGACCAATTAATAATTTAAAGATTTTCTCTCTCTTTC
CCCCTCTTCTCTCTCTCTCTCTCTCTCTCTCACACACACACACACA
CACACACACAACCTCTCCAAGCACAAAGAGCTGA

DG5S880: CHR5: 168376530 - 168376775
TGAGTGGATGAGGGAGAAGGATAAAAAGTCATAAAATGCCTCGCAAAAACCT
TTGAGGTCTGCCTGCCTGGTATTACAGAGAAGCTTGACAAATACAGAATG
TTTTGTGGGAAGGAAGGCAGGCAGGCAGGCAGGCAGGCAGGCAGGTGGT
TATGTTTTCACTCTTGATATCTCAAAGCTTTATGACACACTCATGGAGTG
AACATAATCTTTGTGGCATGATACAAAGGGACTGAATCACTCAAG

D5S400: 168378412 - 168378696
AGCTATGATCATGCCACTGCACTCCAGCCTGGCTGATAGAATGAGATTCT
GACTCAGAAAAATATAAACACACACACACACACACACACACACACACA
CACACACACACACACAACCTTTCTGTCTGCCCCCTTGCTCTTCTGTCCCA
TCTCTGCCTTTCTTCTTTCTCTTTGTCAAATCTCCTTCGTCTGCCTC
ACAAAGGCCAGTGAGCCCCAGCCGACAGACCAGGGAAGCCAGCAAATTAGG
AATTTTCTTCACAAAGTTTTGAGTAGCT

DG5S881: 168395631 - 168395815
TCTCCCATCTCCTCCCTAGCTATCCCCTGCCTGGTAATCACTGTTTTGTT
CTCTATTTCTGTACAGTTGGGTTTTTGTGTTGTTGTTGTTTTAGATTCT
CACATATACTTGAAACAATGCAATCTTTTTCTTTCTTTGTCTGGTTTATT
TCACTTAACACAGTGCACTCCAGGCTCGTCTATG

>D5S2043: 168499686 - 168499956
CCAGAAAGCTTCACCAAGGGGCGAGCATGATTATGCATGAGCTTCTTAAA
TCTGGACTTCCCGACAGCTTCTCATGACAGGTCTTCTGTGGAAGACTCCT
TAGATTACAGACCATCAGGCCTTTNAAAAGCACAGGAACCTACTTTACCTC
GCCCAACTCTACGGATGGGATAGGNACTTACAAGGACATTTCTTCATTGG
ATTCCAATGTTCAATTCTCCCCTTCTCTCTCAATTAATCTCCCCCTCTT

FIG. 7D

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CTCTTTCTATCTACACACACACACACACACACACAGAGAGAGAGAG
AGAGAGAGAGAGAGAGAGANAGAAACAGCTTCTTCACAGCGGGAAGCAGG
GGAAGGGTATCTATTTCCGGCAAGATC

>DG5S1058: 168554788 - 168555167

AAAGTCAGCTAGGGCGACTGAGCCAGAGAGATGGGGCACACAGCAAGAGG
AGACCTGACAAAGTGCAGGTGTGTCCTAGAGAAGGCAAGCGAGACCACTG
CATGATTGGAATACCAGCCAACCCCTGCTGTTCTTGTTCCAGCAAAGTG
CCCTTTTAAAATAAAATTTATGTATATAGTCTCTGTGTGTGTGTGTGTGTG
TGTGTGTGTGTGTGTATAGACATATAGAAATATATATTCCTAATTCAGAA
CTCATTCGTAAGTGCACACACTGACATGTGTTTCATGTTTCCCAATTTAT
CCCAGAGCCTATATGCAGTGTGTTGGCTGCACAAGTAGGCATTAAATGCAA
CCACTGGGAATGAGAATGGTGGCCACAAC

>D5S2075: 168569742 - 168570114

AGCTTTGAAATCCCATCCAAACTNATTGGCGTTTCAAACCTGAATCCCAGA
TGTTCACTTACTGAGAAATAAATGAATGGCCCAATTCGTGGACTGANGCA
GGGNCCCTCACAAATAGATTCCAGGTGTGTTGGCCTCTGGACCACTATCT
TTCTCTGTTTTACATACACATACATACACACACACACACACACACACA
CACACACACACACACACGGCACCAAGTCCATCCTGAAAAGAATTCAAC
GTCATCTCCAAGTTAGAGCCAGTNTAGGATGAACAGAGGTAGTTACCTAA
CACAAATAACATATTTTCAATTGTGGATGAAGGCAAAGGGCTCCACATTC
ACACTCTTGTGCCTTCAATA

>DG5S883: 168592111 - 168592265

GGCATGGGATGTTTGACCTAAGAGATGGACTAAAGCCAATGAGTAAAAAT
GTAAAGCGTACTTAGTCAAATAAATTCTTCTCTCTCTCTCTCTCTCTC
TCTCTCCTTATTCATCACTCTTGGGCCGTGATGATGATGAGGGAGAGGAG
CAGT

>DG5S38: 168715977 - 168716367

TATTTGCCTGCCTGGGTTAGATGATTCTCCAGGCTTCTACACAATTTTAT
GTTTATATGAAAATAGCCACAAAGGGAAAAGAGGACAATAAAACAAGAGA
TATGAATAATAATGTATTGTATACTTGAAATTTGCTAAAAGAGTAGATCT
CAAGTGTCTACATACACACACACACACACACACACACACAAAGGTAATG
AATGAGATGATAGGTGTTAATTAACCTTGATTGTGGTAATCACTTCACAA
GTATACATATAAAAACATCATGTTTACAACCTACATTTATACAATTCCT
CAATTATATATCAATAAACCTGGAAAAATAAAGATGTATAAAAAAAGATTT
ACAAATAAGATTTTTAAAAAAGGATTGTGAGGAAACAAAG

>DG5S37: 168770226 - 168770418

ACCAGCTAACCTGCCATGAGACTGTTGTGTAGCCATCTTCACCTCCTCAT

FIG. 7E

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CTTCAGGGAAGGGGATGAAAATATCTGTGCACTGCAAATGTAACTATAT
ATACACACACACACACACACACACACGTACAGTAGGCCCTCCATAACC
TGAGGTTCCACATCTGCATATTTTACCAACTCTGGTCCCTGC

DG5S886: 168803195 - 168803445
TTGTTCTGAATGGGAGGAGGACTGGTGAGTGAGGGGGAAAGAATGGAGA
CAGGACTGAGAAGAACCAGAAATTTAAATAATAGTAGTAATAGCCTAACA
TGTACACGTATATGAGATCTATCTATCTATCTATCTATCTATCTATCTAT
CTATCTATCTATCATCTATATATCTATCATCCATCATGTATCTATCTATT
TGCATATATAAGCTATAATATCTGGCTCTGTTCTAATTGTTT

DG5S101: 168833451 - 168833700
CCAGGCTTGGATGAGAGAATAATCTTAAGGAAGTCAGCATATGTTCTAGA
AACATTCAGAAGACAAAAGAGTCTGTTATGAAAGAACAAAGTATTTGTAA
TAATAAATTGAATGTTACATGGACACACCCAGACATACACACACAGACAC
ACACACACACAGTTTTTCTTCTCTCTCTCTCTCTCCCCACTCCCCTCTCT
CATACTTTGCAAACAAGCTCCTCAGCAGCTGGTAAGCTGTTCCCTGTCC

DG5S102: 168895047 - 168895352
TCCTGACTGCTCAAAGCTCAAGGTGTTGCCTTTTTCAAATGGGATGCAAT
AGCCTACTCATTTTCCAAGATTAAAGCTAGAGAGAAGAATGAATGAATGA
ATAAATAAATAAATAAATAAATAAATAAATAAATAAATGAGCAAAGTTAA
TATTAGCTGGAAAAAATAGGGTACAGGTGGAAGGAATGAACCCATATTGA
GAGTCCACTATGTGTCAAATTCCTTGCAATGGAATCTCTAAGGTCTGTCTA
GCTTAAAAGCAATGCCAGCCTTGCTATCTGTACTTGATGAGGAGATGGAT
CGGAA

DG5S39: 168920224 - 168920577
CCAAACTGCAAACCCAACTTCTACAATGAATTCATGTGCAACTTATTCT
AAAAGATCTATACACACACACACACACACACACACACACACACACACA
CACTTCCTGTCTTATTGCTCTTCACTACTTCCTTCATCTCTGTGCTACAA
TCTGGGTTCATTTTTCTTCCCCTTGAGTAATTTATTATGTTTTTTACAGT
GAGTCTGTTGCTCAAAAATTCTTTTAGTATTTATTTGTATAAAAAGTCTT
AATTTTGTCTTCATATAAAATTTTGTGACACTCTATTATAAATTGACT
GTTATTCTCTTCCATGTTTTCCGGACATAGTTCCATTGTCTTCTGACTT
CCA

D5S1456: 168968063 - 168968256
TTCNACCTTATGGGTATATCGAATTGTAACCCCGTTGTAGGTCAAGGAGC
ATCTNCATATATACATACATAGATGATAGATAGATAGATAGATAGATAGA
TAGATAGATAGATAGATAGATTTAATTCTAAANTTTCAAATACTCTTTC
ATTTAAATGATTATAGTTTTACAACAATTCATATATNTATAGGTAGGA

FIG. 7F

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GAATTAGGGTTTTCCAGAGAAATAGANNCAATAGGCTGTGTGTGTATATA
ANGATTTANTTTNAAGA

DG5S106: 169021310 - 169021609

GTTGGGCATGATGGTGTGTACCTATAGTCCTAGCTACCTGGGAGGCTGAG
GCAGGAGGATCCCTTGAGCCCAGGAGTTTAAGACTAACAAGACTCCATCT
CTGAAAAATAAGGCAAAAAAGTATGAAGAATAAAATAACAATCACTTAC
ATTCCAACCACCTATAATTAATCATTGCCAACACCTGAGGATATTTGCTT
CCAATCTACAAGACTGCATTATTATTATTATTATTATTATTATTATTATT
ATTATTATTATTATTATTATTGAGATGGGGGTTTCTCTTTGTTGCCAG

DG5S40: 169067041 - 169067434

GCAGACAGGGTTCAAATTCCAGCCTCCCCTCATATTAGCTGTGTGATCTT
AGGCAAGTTTATTCATGTGTAAAAAGAAATAATAACCTCTTCTCGTGGGG
TTGCAGGTAAACAAAAGAGTAGGTATTAACAACACTAAAAGAGTATGAT
TGGATTGTTTATAACACAAAGGATAAATGCTTGAGGACATGGATCCCCAT
CTTCCATGATGTGATTTTTATGCATTGTATGCCTCTATCAAAACATCTCA
TTTACTCCATATATATGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT
GTGTGTGTGTATGTGTATGCACACACTATGTGCCACAAAAATTAAAA
ATTTTAAATTAAAAAATTTTAAAAATAAACATGCTGCTGGGC

D5S504: 169142805 - 169143006

AGCTGCCAGCACACAAGGCCAGAGGTACTTTATTGGATGCCAAATTCTT
TTAACACACCATGAGAAAAGAAGTTGACAACCTTTCCCATGCATTTTGGAA
GGTGTGTTAGAACGATTCAACACACACACACACACACACACACACACACA
CACACACACACACATTTATTGGGTGGGGGAGCCTTAAACTTACAAATC
T

D5S1961: 169173385 - 169173631

AATTTCTTACCCTTTATCCCCGTCTTCTACTCCCATTCCACATGCCCCC
ACCCCCCATGAATGATTTGTCTAATGCGTTGAATATGCACGTGTGGTTTT
GGGTGCATGTATGTTTACACACACACACACAGACTCTCTCTCTCTCTCTC
TCACACACACACACACACACACACACACACACACTCATGCCTCTCCTT
TGAAGAGGATCAGATATGGACAGCAAAGGGCATTAGCATCTTAGCT

DG5S108: 169203019 - 169203370

GCTCCAAAGTTCCTGATTCCAAAGCCTAAGTTAAGCCATCTTAACTTATA
TTTCAGGTGACTAGTGGAATTTTTATGCCAGTGTAGGTGGTAATGACG
ATGGAGATATGGCGATGATGATGATGATGATGATGATGATGATGATGATG
ATGGCAGTAGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGT
TGACCACTGTTGTCTGTGTCCTTTGTACAATTGTTTCAGATGCAGTGTCTT
GGTTGTCACATAGATGTCTCTGACTGTTTACAGGCCTTCACCTACCACC

FIG. 7G

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ATATCCAGGAGATCATGGTCCAGCTGCTGCGGACAGTGAACCGGACAGTC
A

DG5S41: 169277936 - 169278300

TTAACCCACTGCTCCCATTTTGTCTGGTGGAAACTGAAAACCAAAGAGAT
TAAGTCATTTACCCAAGGTCATGTAACATAATATATTGAATCTCAGATGTT
TTAATGATTTTGACTCATTTCCAATTTGCCTGGCTATATAGAGAAAATAT
TTGAGGAATTGACAGGGAACACACACACACACACACACACACACACACAC
ACACACACACACAGAGGGAGGGAGGGGAGAGAGAGAGACAGAGACAGACA
GAGACTGAAACAGATTATTTCTCCACTGATGTTTATTATTAGATCTATTT
TCAACATTTAAAGGCAATTGTCAGCATAGTCAATTCAGCCATTTTAAACC
ATCAAGGGCCAATG

DG5S42: 169285983 - 169286144

GCAACCTATTTGTTAGCAGCACATGCGTGCGTGTGCATGCACGTGGGCAC
ACACACACACACACACACACACACTCTTTCAGGGGAATTTTGAGCCA
GAAATTTATCTGTAGGCCCATATTCATTCTTTTGCACATTTCTATTGT
GACCTTGGGCA

DG5S10: 169356049 - 169356318

CAATTCCACACAGCTGGAGAGTAACAAAGCCAGAAATCACATCCATTTGT
GTGTGTGTGTGTGTGTGTGTGTGCCAAATCCTGTGATTCCAGTGCCAGG
ATACACTGTCCTCCGTGTTCAACAGTCATGAAAGTATTTTAATGAACACC
TGGCCCTGCAGTGCCTGATGTAGCAAATGCTGCAGATACTCCACCCACCG
ACTCTTGGAACCCCAAAATCCACTGGCAGCTTCAGTGAGGCTTTCCTAC
TTCTTTCTTTCCCTGGGCT

DG5S110: 169391090 - 169391341

CACTGGACTTGGAGTCAGGACATCATTTTAACAGCTTTATCGAGATGTAA
TTTACATGCCATACAATTTACCCAAAGTGTACAATCATTGACTCTTAGTA
TGTTACAGAGCTATGTAACCATCACCACAATCAATTTTACAACATTTTC
ATTACTCCTAAAAAGCAAACCTGCACCCCTTAGCCACTGCTCTGCCAACA
CACACACACACACACACACACACGCGTGCGCACACACACCCAAACACT
C

DG5S11: 169409260 - 169409401

CGCGTGTACCTCCACATAGATGTTTGCCAATGCCTATGCCCCAAGACACAC
ACACATACACACACACACACACACAGGATACATTCAAGCACACACTAA
TGTATGTGCACTTGCTGCACAGAGTCCACATCACACAGGC

FIG. 7H

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D5S1973: 169424532 - 169424861

AGCTTCTAGTCTGCTATGTTGCTAATTGTCTTCTTGGTCATCTTTTAAAA
CCATTTCTGTGAAATTATAGCCTCCTTACTCCCTTACCCTGAGTCTGGAT
GTTTCTGAAGATGACTGATCTCTACAGTGAGAAGGCCCTGGGAATTGACT
GACTCACTCTCTGTCTCTCTCTCTCTCTCTCTCACACACACACACACA
CACACACACACACTCATATACATACACACATAGATACACATATACATGCA
TCCACACATGCACACCCTGGGCACACCCACACACCCTACAACCTGCACATG
CATGCACACACATAATGTAACTGAAGG

D5S397: 169542970 - 169543287

AGCTTTTGGCTATGGAACCTTAGGCAAGATGTTTCATAAACCCCTTTAATCT
CTAGTGGCCTTGTTTCATAAAAAGAAGTGAATCGGATCCCTGCAGGACTGT
TTTTGTATTCAAGTGACAGGTGTGTGTGAAGACACCCAGCATGTTGCCAG
GCACACAGAGATGTCTACCTTGATACTTTTCTCTCCTCCTCCCCGCAAT
ACACACACACACACACACACACACACACACTCACACACTCTTATTTTG
ATCTTGGCCTGAGGCTGACAAGCCCCAGATTAGTGATCAGTGACAATTTC
GGCTTTATCAGCT

DG5S115: 169586308 - 169586550

CGAGGATGCACACCTCATTAATTGAGGAGCTAGGATTTAGATCCAGAGCC
TCATGATTCTAAAGCCTGTTTTTGTGTTGTTGTTGTTGTTGTTGTTT
GGCCACACTAGGTTTCTAGAACTTCCAGTTCCTTCTTAAAAGTCCTTT
TGGGCATTCCGGCCTAAATCCCAAACTGTGGTCTGGGTACAAGAGAGAA
TTAGGCCAGTGAGAAAAATTTAAACCACCCTGCCCTCTAAAT

DG5S888: 169653226 - 169653848

CTTGATGTCTTCTTTACCATCCCCCTGGCACCCGCCTATACATTTATTAC
TTGAAACAGACTGACCTTTATTTGGTTAGGCCACTGTGGTCAGGTTTCTG
CAACATGGGGTCACATGCCTTCCCAACTGACACAAGTCTCAAGCTCCTTT
TCTCTTCTTTTATAACTTCTAGAAGCATAGCTTCTACCAGATAAGGATC
TAACCTTTTCAGTGGAACAAATGGCAAAGAAGTAAAGAAAGAAGAG
AGAGAAAGAAGAAAGAAAGAAAGAAAGAAAGAAAGAAAGAAAGAAAGAA
AGAAAGAAAGAAAGAAAGAAAGAGAGAAAGAAAGAGAGAAAGAAAGAGAG
AAAGAAAGAGAGATGGAGAGAGGGAAGGAAGGAAGAAAGAAAGAGAGGG
AGAAGAAAGAAGACAGGGAAGGAAAGGGAAGGGAAGGGAAGGGAAGGGAAG
AGGGGAGGACAAGGGAAGGGGAGAGGGGAGGACAAGGGAAGGGAGGAAGG
AAGAAAGGAAGGAAAGAAAGGCAGGAAGGAAGGAAGGAAGGAAGGAAGAAA
GGAAGGAAGGAAGGAAGGAAAAATACTAGGGCCTTTCACTTTTGCCTTC
AATAGCAGAGTGGCCCTGGATAT

DG5S44: 169661202 - 169661574

TATTGGCAGAGGGTGAGTCCAGTGTATAAAAGCAACTATATTTGTGCAAT
AAGGCAACCTCTAAACACAAGTTACTACTTCATCTAATGCCACACACACA

FIG. 7I

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CACACACACACACACACACACACACGAGTCATCTGTTCCAAGGCTGTTGC
CTTTACTAAGTGATGCTATGTTGGTCCTTGAGGTGGTGCCTTCCTGAGGG
TTTTCAAGCATAGCTTTGGCCATGCACAGTTTTCTTCTTATACACACTCT
GAGGAGCCCCGCCGTACGGTAATGCACCTGCCTCACAAGCTGGTGGGCA
GCTTAAATGAAATACACATTTTGCTCCAGGCCAGCACTAGCTCATCAAT
GTGAGCTGGTGTAGCCTCACC

DG5S45: 169693772 - 169693912

CAGTAGCCAGGAAGCTGAGGAACACACACACACACACACACACACACA
CACACACACAAACACACCCCTTCCTGGCTCCAGTTCGACCAACCCACA
CCCCAACACCGGAAGTAGATTTCTCAATAGGCAGGGCTG

DG5S46: 169702377 - 169702678

TTTGCCAGAATGTCCTCACACCAAATAGTGGACCCCTTCTTTTGCTGATT
TATCTGCTATTGTATAGGTGTATGTGTGTGTGGGTGTGTGTGTGTGTG
TGTGTTAAGGCAGGTGGTAGTATGTGTAGGGTAGGGTTTCCCCAGTCACC
TGGAGCCCTGAGTGCCTGCTTCCCTAAACTAGGCCAGTTTAGCTGACTGG
CTTCCTTTGTGTATTGGTCCATTCTGCATCAAAAGCATCTGAATTTTCAT
TCAATCTCTCTTCTGAATTTTCACTTTTAAAAACCTGACCAGTCCCTTGT
G

DG5S47: 169788696 - 169788899

CTCCTCCATGGTAGGGACTGGTTCTCTTAGGCCCTGTATCCTCAGGCCC
AGCATGCTTGGGAAAATGTTTGCTAATGCTTTGTGACTCAAAAGGAATCA
CACACACACACACACACACACAAACACACACACACAGTTTTTAATATT
ATCAGTCATATCAGCCCCCTGAGGCAGCTGCTCTGTTCCAGACAAACCCT
GTT

DG5S119: 169843903 - 169844041

GGGTACAGGAGAGTTGTGGTGGGCATTAGTACTACTCCTGCTGCTGCTGC
TGCTGCTGCTGCTGTGTCCACTGTTAGTGACAGAAGTGGGAAAATATTTA
AGTTGAGTTCACATTAGTGTTCCAGTTTAGCGTGAGC

DG5S953: 169866165 - 169866415

CCATGAGTTCAGGCAGTGGGTAAATAAGATTTCCCTTGAAGTCGAATGA
AATCACAATGCACCACACACAGGGACACACACACACACACACGCACGCAC
GCACATCACACACACACACACACACACACACACACACACACATACA
CACACACAGTCTCCCTGGGGCCAATCTACTGCCCCCTGAACCTCACCCAT
CAGCCAGGTGCCTGGCCCCGGGTCTGTCTCTTAGGGTTACATGCTCCCGG

FIG. 7J

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DG5S955: 169951970 - 169952619

ACTTATGGAACACCTACTCAGTGCCAGGTATTGTTGTAGATGCCAGGAGT
ACAGCAGGGAATAAAACAACATCCCTGTCCTCGACACAAACACACAAGTA
AATAGAGAAGGTCAGAGATAAATGCTGTGCAGGAAAACAAAGCAAAGTGA
GGGATGGAGAGTGCAGGAAGGTTGGGGCACTTTTGTTCAGATGAGTGTCA
GGGAAGCCCCCTTGGAGGAGGCACTGTAAGGGCACAGAATCGAATGAAAG
GAGTATGTGAAGGTGCTTAAATTGTTTCTGTTTGGTTTGGTGTGGTGTGA
TGTGGTGTGGTGTGGTGTGGTGTGGTGTGGTGTGGTGTGGTGTGGTGTGG
TGTGGTGTGGTGTGATGTGATGTGGTGTGCGGTGCGGTGCGGTGCGGTGC
GGTGCAGGTGTGGTGTGGTATGGGTTGAGGCTGGCCTTAGGAGCCTGTTGG
CCTTCCAGGCCAGTCCTGAAGCCCAGCCCAGAGCACCAGACTCTGCAGTC
AGTCAGTGGAGGGCCCACATCTCAGCCAATGCATGGCTTTGGGTGGTGAC
TTCATCTCCCCTAGTGTTCCTTTCCCCCTCTGCAAAATGGGAATGGGGAT
GGCTCAGAACTCCAGCGGGAGTTAGGAGGAATAATGTATAGGAAGTATG
AGCAGAGTGCCTGG

DG5S13: 169961410 - 169961530

TGATGTGCTCGTTCCCATAGCCCCGCTGTGTGTGTGTGCGCGTGTGTGTG
TGT
CAGAAGAGGAAGAGAGGGCA

DG5S123: 170015858 - 170015997

TGGTGATCAGCTCAGTGTCTTGGAAAAGAGCAGAAAGTGGTATCACGAA
CATATCTTCTCCTTTGCTTCTTCTCCTCACTCTTCATCATCATCATCAT
CATCATCATCAAATATGGATCTGTGAGGCTACCTCTGGG

DG5S124: 170041996 - 170042336

GGAGGAGAGACCAGCATTACATTCAAGTTATTGTTGTTTTAAATCCATTA
CGCACATACATAGGAGAAAATTTAGCAACAGTCACCCTCTGAACCCAGT
TCCTCAGTTCTCTCCAGAGGCAACTAAAATGCTCAATTATTAGTGTATCC
TTTTGGAAATATTTTATGTATATGACAGTGTGTGTGTGTGTGTGTGTGTG
TGTGTGTGTGTGTTTCTTTCCAATATTAATAAATAATATTAACATTGGTAAT
AGTGGTACTAAACAACCTTAGGGTGTTTTTTTTTTTCATTTAATAGTATATT
TTAGTATCTTTCCAGGAAAAGATACATGGATGTGCCACA

D5S625: 170105556 - 170105787

TCAATAAATGATTCTGGGGATGTGTCTGTCTGTCCATCTGTCTCTCTCNA
GANACANATACACACACACACACACACACACACACACACATCCTGT
TAGTTCTGTTTACCTGGAGAACCTTGACTAACATACCCATTAAAACCAAA
ATATGTCCTTCAGGGTGTAAATGTTTGGTTGAAGAAACACAGAAGTTTAA
CAATTGTATCAGGCTGGGCACGGCCTATAATCCCAGCATTTTGGGAGGCC
ACAATGAGNGGATCACTTGAGCCCAGGAGTTCTAGACCAGCCTATGCAAC
ATAGTGAGACAAAAAATGAANAAAATTAGGGGTGTGGTGGAGCGCACCT

FIG. 7K

GTAGTCCTAGCT

DG5S959: 170167429 - 170167616

GAGTTCCTATGGAACAGCATTTATTGAATAATAACATTTTCAGGAAAAAATA
TAAGCTTTACTGTATATTAAAATACATATATACGTTTATATATTATATAT
TATATTATATTATATATTATATATATTATATATATTATAATATTTATATA
TTATATAGATATAAATCAACTACAAGATCCAGTTCAA

DG5S960: 170203240 - 170203459

TTGCCTAAGATCTAGGTGTTCAAAAGAATTTCTCCAATCCACTTCAGCCT
GTTATTATGTATGTATTCTGTTTTAAATGAGAAACAAGAGTCATTTTCTC
CAGAATAATAGAACCATAGTGACACTTGAAGTAAGTCCAGTGGTCCTGAT
ATGATAATAATAATAATAATTATTATTATTATTATTATTTTGAG
ACGAGGTCTGTATCTGTTG

DG5S16: 170280782 - 170281084

ATGGAGAGACACGGAGTTGCTTGAGGGTACAGTGCCTGTAGATACTCAAT
AAATATTTGTTAATTAAGAAAATTTCTGTTATTTGTGTGCTCATACATA
CCATTTCAGTCTGGTGAGTATTGTTCTTTCCTAGAGTTTACTTTTAATCT
TAAGTATTTTCCAGGTCTTTGTTGACTTCTGTTTAAACCACAGTACACA
CACACACACACACACACAACTTTTGTGTACTATAATAGCTTCCCCAAA
ATTATAATTTAGTCATTGTGATGCAGATCTTCTTCCAAGGCCTCTACTTT
GG

DG5S962: 170338421 - 170338789

AAACAAACAAACAGAAACACCAAAATGGATTCCAGCATCTTATAAGTGCT
TTCTCTTATGATCGAGAGTAAGACAAGCATGGCTACTCCCTTCTCTTCTA
TTAAATATTGTACTAGGGGTTCTATTGAGATAAATAGGCAAAAAACAAAA
CAAAACAAAACAAAAAGGCATCCAGATTTAAAAAAGGAATCTAGGA
ATAAAGGGATTACATCTCTACTTGCAGATGACATGATCTTATGTATAGGA
AATCCTAAGGATCCACTGAAAACTGTTAGAACTAATAACATCAGTAAGT
TTGCAGGATTATAAGATTAATACAAAACTCGACTGAATTTCTGTGCACT
TGCAATAAACAACCCAAA

DG5S132: 170442700 - 170442947

TCTGCCCACACACTTTATGCTTTAAACAAAAGGCCATGTTGAACTTGTA
GAACCAAATGATTGCTAATTACTTGGGGCGATACTAGTGATATATTATCT
TACATACACACACACAAAACACACACACACACACACACACACACACAC
GGCTTGAGTCCAGCATGGCCTACTGATTTTAAATAGGAAATGACAGTGT
AAATGCCAGGATAAAGGACAAAGTGCTCTGACCTGTTGCCAAACCTT

FIG. 7L

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DG5S136: 170469573 - 170469843

GGGTTTAGGACCCACGTATCTTTTGTGTTGTTGTTGTTGTTGTTGTT
TTGGAGTTCAACATGTTTATGGTGTGTAGCCATGGTTGAAAGCTTTTATT
TTATAAGATAGACAAAGCAGGAATTATTATTCTCATTTTACAGGAGAAAA
ACAGAAGGGCTATGTGGTTTGTTAAAAGGCCACACAGACAGTAAAGAACA
CAGCCTTTACATGGTCAGCCTCACATTCTAGTACTCATTTTATTACACTG
CTCTTCTTCTCTGTTGCCTG

DG5S133: 170480360 - 170480621

CTGGCCTCTTTGCCCATTTCCTAATTGGATTATATGTGGGGTTTTGTTGT
TGTTGTTGTTGTTGTTGTTGTTGTTGTTGTTGTTGTTGTTGTTGTTGTT
CCTTGATATTCTAGATATTAATCCCTTGCCAATTAATAGTTTGCCAGTA
TTTTCTCCCATCCTGTAGGTTGTTCACTCTGATGATTGTTTCCTTTGCTG
TGCAGAAGGTATTTAATTTGATATAATCCCATTTATTTACTTTTGTTTCT
GTTGCCTGTGA

DG5S17: 170499980 - 170500284

CCATCCAGGGTCTAACTCCAGCATTGTATAACTTGGACAATACTTTTG
CTACAGGGTTGTCATTGAAAGTATTGCCTCATTATTTCTTAGTGGTCC
CTGTATGAAGCCATATAAGAGAACTTCTTAATTTAGCACTAGGAAATGC
TTCTGTTGACTTGAGATGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT
TGT
ACTATAAAATAATCTTTCTTTTCACTTTGGCCATCTGGAAATTTGCCA
CCAA

DG5S137: 170644993 - 170645364

TGGCTTCCAATCCTAGAAAAGGAAGAAAGCTGCATGTTGTTGTTGTTGT
TGTTGTTGTTGTTGTTGTTGTTGTTGTTGTTGTTGTTGTTGTTGTTGTT
CCAGGCTGGAGTGCAGTCACATGATCTCAGCTCACTGCAGCCTCTGCCTC
CCTGGTTCAAGCAATTCTCCAGTCTCAGCCTCCCAAGTAGCTGGGATTAC
AGGTGCGCACCACCACTCCAGGCTAATTTTTGTATTTTGTAGTAGAGACG
GGGTTTCACGATGTTGGCCAGGCTGGTCTTGAACCTCCTGACCTCAGGTGA
CCCACCTGCCTCGGCCTCCCAAAGTGCTGGGATTACAGGCGTGAGCCACC
GCACCTGGCTGAAAGCTGCAT

DG5S53: 170673106 - 170673364

GCCTTCGCAGATTGTACCTCTTCCTTTACCCCTTCTCGCTGGCCTGTGCT
TCTCTCTCCATCGTGGTCTCCCACGCCTTGGTTTCTCCTCCATCCCCATC
CCCATCTTTCTGTAGCCCCCTCCAACTCTCTCCCCGTGTTTTGTACGGTCT
CCTGCGTTCACTTGATTTCTCTCACCCACCCCGCCCCAAACACACAGG
CACACACACACACACACACGCGCACACACACGGGCCTCTCGCACTCTC
CTTCTCCT

FIG. 7M

DG5S904: 170735417 - 170735632

DG5S906: 170820130 - 170820505

DG5S141: 170910447 - 170910786

DG5S909: 170941109 - 170941259

DG5S910: 170946679 - 170947010

FIG. 7N

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CTATCTCCTTTACTAAACAGTAAGCTCCATGAAAATATGGATCATCACTG
TCTTATTCACCATTATATTCTCAGCATATGGTATTGTCCTGGTATAGAAT
AGATTCTCAATAAATGCTTGCTAAATGAATGCATTCATGAGTGAGTGAAT
GAATGAATATGCGAGTGGATGAGTGTGTGGA

DG5S911: 170985696 - 170986066

TGCTTGAGGGCAGGATCTATATGTAATTCCTTTCTGGAAAACCAGGGATT
GAAACAGGATCTGGCATGCAATGGGCTGGATGGGTGAATGGAGAAATAGA
TGAATGACAGATGGATGGACAAACAGATGGAAGGAAGGATGGATGGATAG
ATGGATGGATGGATGGTTGGATGGATGGATGGATGGATGGATGGATGGAT
GGATGGATGGATGGATGGACAGATGGATTGGTTGGTAGATGTGTGGATAG
ATGGATGGGTGAACAAGCGAGTAGATGGATGAGTAAATGGCTAAATCTGG
TGCTTTTCTCCAGAATCCTGGATTCTGAAGGGAGGCTTTCAGCCCTTC
CTCGTGGATCACTTGCTCTG

DG5S143: 171018986 - 171019237

GGCTGAATTACTGGGCATGTTTCTGAGAAGAAAGAACTTCTATTTTAATT
ATATATCTACAGAAACCAAATTGCCTGCTTACAGTTTTACATGTCTGATG
ATTGGAAGTTTTTGTGTTGTTGTTGTTGTTGTTGTTGTTTCCACAGACT
AGCCTCTGACTCCATATATTTCAAACCTTTGTTCCCTCTTCCACTACCCACA
TATTTCTGATGTGAGACATTCTAGAAAAATTTTCATATTGCAAGACGGCTT
C

DG5S513: 171039003 - 171039366

TTGGCAGGATTCAGTTCCTCATGGGCACCAGACGGAGAGTCTCAGCAAAT
CACTAGCTGGTGACTGCAGCCACCGCAGTTCTTTATCACGTGGTTCTCTC
CATAGGGCAGTTCACAGTGTGGTAACTTGCTTCATCAGAGCAAGCCAGGA
AGAAGACCCAGAGACAGACAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGG
AGGCCTCTGAAAGAGAGAGAGAAGAGAGAGAGGCAAAGAGAGAATGAGAA
CTCCAGAAGTCACTGTCTTTATAGCCTAATCTTGAAAGTGACATTCATC
ACTTTCACTACATTTTCTTCCCCAGCAGTGCTCAGTGGGAGGGGATTATA
CACGGCCATGGAT

DG5S145: 171040948 - 171041151

GCACATTTGCAGAGGTTTGAGGTCCCATCATTAGCCATGCTTCTTGGTTC
CTGCACTATGAGTATACGTATGTGGGCTGATGGCCTCATTCACTGGATAC
ACACACACACACACACACACACACACACACACACCTCACCAGGG
ACTTGGGAGTATCTAAATGTTTGAGAATCATAGAGCAGGGAGACATCCAA
CAC

DG5S146: 171073796 - 171074122

GGGCACATACAGCTTTCCTTGCAGGAAAAAACCTGCTTAACCTTTGTTTA

FIG. 70

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TTATATATTATTTGATCTGTGCTTCATATATTATTCATATATTATTTGAT
CAAGTTGCTTCATGTATTATTTGATCAAGGAATCATGTGTGTCTACAGCA
CCTATTA AAAATCCCTGGCACTGAAATTCTGTAGAAAACCATTTAGGAAA
AGTTGATCTAACTGTATAATTATTAGTAAAACATATACACACACACATAC
ACACACACACACACACACACACACACACCACAAGCAAACAAAAAAAACC
ACCTTAATGGTCTCCTAACCAAGGCA

DG5S147: 171107565 - 171107831

GCATGTTCCGCACAGAGATTCAATTAATTTAAATAGGTAGAGGACTTGGG
GCAGTGCCTAGGACAACATTACACTCAGGGATGGTGATGATGATGATTAT
AATGATGATGATGATGTTGATGATGATGATGTTGATAATGATGATGATGA
TGATGATGATGATGATCATGATGATAATGGAAGAAGATAGAGGAGGTA
GAAGAGGAGACAATCATGATGTTGGAGGTAGACTCCAATCTTCAGAAATCA
GAAGCTCAGGGTTGGA

D5S462: 171134297 - 171134396

AGCTTAATCTATTATTTNAGAGGCAGAAAGTTAACTTGCTTATCCTGAAA
AGAAGTGCAAATATATCCCAAAAGTGCCATTCTTTCATTCATCCACTCAA
ACAGATACACACACACACACATACACACACACACACACACACACCCTTTT
CACCCCTTGGTAGTGTACAGTCTCTGAGTTGTAAAAAATAGTCATTNCTT
TCTGCTTGAAAGACTGTATTAGCT

DG5S148: 171140975 - 171141303

CCAGCATGATCCTATGAATCCTTATAAAAGGGAGATGGGAAAATTTACACA
CAGATAGAGA
CAGAGAGAAGAGGATAAGGCAATGTAACCATGGAGGCAGAGATGGGAGTG
CTGTAGCCACAAGCTAAGGAATGCTGGCAGCCACAGATGCTGGAAGAGTT
GAAGAATGGGTTCCCTTGAGGGAGCACAGCCAGATGCATGCTTTGAGAG
TTCAGCCCAGTGCTACTGACTTTAGACTTATGGTTTCCAGAACTACAAAA
AATTAATTTCTGTCGTTTCAAACCATCC

DG5S914: 171219902 - 171220159

CAAACGTCGCTGACCTGAGTCTGACCTGGGCTGCCTCGTGTTACCAACAT
GAAAAGGGAGTGAGAAAATCTGAGGCCAATTAACCTTCTCTCCCTCTCTCT
CTCTTTTCTCCCTTGCCACCTCTCTCTCTCTCTCTCTCTCTCTCTCTCT
CTCTCTCTCTCTCTCTTTTTCCTCTCTCTCTCTCTCTCTCTCTCTCTCT
AAATTTCTGAAACAAAACTCGCAGCCCGTTCAATAAAATGCTTTCGCC
TTTGGTG

DG5S150: 171232854 - 171233077

ACAGTTGCCATTTGCTCATTTAAAATGTAGTGAGGTGTTTTAAAGAGGGT
TTGTTCAATTTACCAAAAAGGGAAAAAAGGGAAAAAGAAGAACTTATTG

FIG. 7P

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TTGAACGAACACACACACACACACACACACAAAGAGCCTGGCTTAATT
TAGGGATAAAGCAAAGAAGTCAATACCCCCACATCAACTATTGAAACCTA
AGCTATTGCTGGAGTTGACAGCG

D5S429: 171276128 - 171276490

AGCTCTNCCTAGCATTGTTTTCTTTGCTTCATTTCTCTTAAATGTGTT
GGATGCACTTNGTTCCTGCTAACTAATCTATCTTTNCAGTTTCAAATCAA
ATGAACCCAGAGAATTTATTTTTACATTATTATCTTCAGATTTAGATTTG
TTTTGCTTTTAATCCTGTCTTCATGAAGGGGAAAGCCATGTGTACCAGCA
TGGTTGATAAACCACCAAATCGTGAAACTTTGCTTGCTCCCCAAACCCCC
AACCACACACACATACACACACACACACACACATACACACACACACACAC
ACACACACACACACACACACAACCTGGGAAATTGGGNAGAAAACCTGGC
AAACCTTAAACTAG

FIG. 7Q

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Exon	Start (B33)	End (B33)	Size (bp)
1	168663060	168663256	197
2	168613935	168614006	72
3	168607252	168607323	72
4	168556026	168556097	72
5	168245813	168245884	72
6	168207132	168207203	72
7	168185808	168185879	72
8	168179848	168180011	164
9	168168994	168169135	142
10	168158055	168158126	72
11	168152108	168152179	72
12	168148455	168148526	72
13	168136783	168136926	144
14	168135329	168135492	164
15	168125087	168125237	151
16	168123410	168123484	75
17	168116412	168116555	144
18	168115503	168115646	144
19	168112020	168112183	164
20	168110850	168110982	133
21	168086964	168087032	69
22	168085481	168085552	72
23	168084804	168084875	72
24	168074831	168074902	72
25	168073443	168073606	164
26	168070524	168070648	125
27	168063130	168063227	98
28	168058840	168058979	140
29	168055155	168055248	94
30	168049527	168049664	138
31	168048235	168048475	241
32	168046514	168046644	131
33	168035725	168035879	155
34	168033746	168034031	286
35	168032331	168032539	209
36	168024289	168029237	4949

FIG. 8

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Start (B33)	Marker	Public alias	deCODE alias	Variation	AA CHANGE
168029068	SLT_703026		SG05S17	A/G	
168034952	SLT_697143	rs1864953	SG05S7	C/G	
168036088	SLT_696007	rs292487	SG05S44	A/T	
168044802	SLT_687289	rs292488	SG05S9	C/T	
168048470	SLT_683623		SG05S16	C/G	P to R
168051407	SLT_680684	rs898401	SG05S24	C/T	
168055569	SLT_676522	rs1368354		C/G	
168058856	SLT_673235	rs1864954	SG05S10	C/T	
168058869	SLT_673223		SG05S228	A/T	Y to F
168062704	SLT_669387	rs1314889		C/T	
168065178	SLT_666913	rs1432804		G/T	
168070500	SLT_661589		SG05S15	C/T	
168070584	SLT_661505			C/T	
168070632	SLT_661457		SG05S14	C/T	
168073885	SLT_658204	rs1155191	SG05S11	C/G	
168074782	SLT_657307	rs1864952	SG05S12	A/G	
168074812	SLT_657277		SG05S13	C/T	
168080074	SLT_652015	rs2611845		C/T	
168082925	SLT_649164	rs2337550	SG05S26	A/G	
168086306	SLT_645645	rs1460099		C/T	
168090782	SLT_641364	rs1585399		C/T	
168096386	SLT_636323	rs2116758	SG05S28	A/C	
168102835	SLT_629874	rs2337552	SG05S27	A/G	
168112060	SLT_621478	rs2304035		C/T	
168116132	SLT_617406	rs1549910		A/G	
168116213	SLT_617325	rs1549909		A/G	
168116711	SLT_616823	rs870723		A/G	
168121401	SLT_612136	rs891923		A/G	
168123071	SLT_610466	rs2288798		A/G	
168123214	SLT_610323			C/T	
168123303	SLT_610234			C/T	
168125044	SLT_608499			A/G	
168128487	SLT_605050	rs1014194		G/T	
168133445	SLT_600093	rs1298695		A/G	
168136894	SLT_596643	rs2288792		A/G	Q to R
168143992	SLT_589545	rs871099	DG00AAHUW	A/G	
168148230	SLT_585307	rs2292141		C/T	
168148494	SLT_585043	rs891921	DG00AAIER	C/T	V to A
168148550	SLT_584969		DG00AAIEL	C/T	
168152032	SLT_581505		SG05S21	C/T	
168152504	SLT_581033			A/G	
168152941	SLT_580597		SG05S19	A/T	
168153523	SLT_580014			A/G	
168153946	SLT_579597		SG05S18	A/G	
168154018	SLT_579519			A/G	
168154461	SLT_579074		DG00AAIEM	A/G	
168154722	SLT_578813		SG05S23	A/G	
168158166	SLT_575368			C/G	
168168958	SLT_564589		DG00AAIEN	A/G	

FIG. 9A

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168169017	SLT_564530		SG05S22	C/T
168180050	SLT_556437		DG00AAIEO	T ins
168185893	SLT_550503		DG00AAIEP	C/G
168185972	SLT_550582		SG05S20	A/G
168201434	SLT_537097	rs1979923		A/G
168205103	SLT_533429	rs1875971	DG00AAHUV	C/T
168212670	SLT_526304	rs1504954	DG00AAILW	A/T
168234201	SLT_504791	rs1466947	SG05S25	A/C
168245982	SLT_525276		DG00AAIMR	A/G
168387458	SLT_317099	rs731717		A/G
168535394	SLT_169267	rs1006329		C/T
168607241	SLT_96349		DG00AAIHU	A/T
168613336	SLT_90256	rs972031		A/G
168613791	SLT_89801	rs1421764	DG00AAIHQ	A/G
168663904	SLT_10323	rs1862217		C/T
168666183	SLT_8967	rs1422028	DG00AAIHR	C/G
168666252	SLT_8898	rs1422029	DG00AAIHV	C/G
168666372	SLT_8778	rs1422030	DG00AAIHS	C/T
168677067	SLT_278	rs1592818	DG00AAIHT	G/T

FIG. 9B

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RS1875971

CCTGACAGCCCTCACGGTCATTCTCTGTGCTAGGAACGGTGTTGTCTTAC
CTCACCAGGAAGGCAGTCTGAGGGAGAAGAGAGGGCTTTACAGCCAGACA
CACCTGGGTGGGGCTTGGGTCAAGTGTCTTCATCTCTCTGAGTCTATCTC
CCCAACTTTTAAAAACAGACAGTGTATGTACTACATAGGAGGGGCTCTCA
TAACTGCCATCCCTTCCACTTTCCTAACTTTGCCCC[C/T]ATACACCCT
CACCCCCATCAAGCCCTTGCCCAGGACAGATTTGGACAGCTCTCCTCTAC
TCAGATAAAAAAAAAAAAAACAAAAAAAAAACGAAAAACGGTATCCAGA
TGCACCAGGTGTCTCCAAGTTGAAGCTTTAAAAACCTGTGACTGAAAGAA
AAAAAAAAAAGTTCTCATTCTTATCATTGCAAAGAGCCCATAGGATCTGA
TTAGTTTATCTTCTCAATTCCAAACAAAGCCAGATCAATAGGTTTGT
AAAGACACTCTCATTTGGCTTCACATGGCTAAGTACTTAAAATTAATCAT
AATCAGTTATTCCATGGGTTTTTAATTTCCAGCAGAGGCACACAGCTTTG
AAACCATCCATCTTAATGGTGAG

RS2055911

CCCTTTTACCCAAAATCTAATCAGACCAATCCTACCTTCCAAATATCACT
TTTCATTTCTTTTCTCTTCCCACTGCTGTACCTTGTGCATGGGCTATT
ACAGCTGTCTATCTGCATCCCACCATCCTCTGCACTGCACGTGGAGTAA
CCTTTCTGAAACCTCCATTGGAGCTTGACTTGACTCCACTTAACATCTGA
AGATCTTTCCGAGGGTTCCTCACTACCCAGACTCTCATCATTGCATGTGT
TCCTCTGTGGTCTGGTCTGGTGCCTGCCTGCTTCTCTGTTCTCATGGTGT
ACACACTCACCACTCCATTTGCTTCATATTCCTCTGTCTGTCTGTCT
GTCTGTCCACCTCCCTACCTCCCCTCTCTCCCTCCCCTACTTCTCTCCT
CATAACAAACCTCTTGGTGATCCCCAGTGGGTCATGATGTATAAACATTT
GCACATAATATTGCCTCTACCTGTCATAACCTTGTGATAACCTTACCGCA
CATAGAGTGTGCTAAGTGTCCAGTGTCTCCAGAGACCCCTGGGCATGCCT
CTAGGGGACCACTCCTATAGGTCTGAGTTCCTC[A/G]GCACCCAGGGT
AGGGCCCTCTCTCTAGTGAATTGCAGAGGGCCTGCACATGGGAAGTGC
TCACAGCCTGCCTGCCTCCCTGCCTGTGGAACAAATGGGATTGAACTCTG
ACCCTAAAAGGACTGTGACGGTGATCTCCTGGGACATGCATTCTAGGGCC
CTCCAAGGCAGTTCCTCTTCCTCATATTTACCTGTCTGTGTGCATGTCAC
TCCTCTCTCGACTGTGAAATGGGAGCACCTGGAAGGTGGTACCCAGCAGC
AATGGACGGTCTCTGGAGTCAGACTGGCACTCCAGACCCCTCTCAGGCAC
TGAGGAGTTGTGTGCCCCCTTAATATGTGCCAACTCACTTTCCTCAACT
GTAAATTGGGGGTGGTCAATTGTTATCACCTCTAAGGATTGTTGCAAGGAT
TAACTGAGATAATTTGCATAAAGCACATAGTCTACATCTTTGCTCTTCAA
TAAAGGGCAGCCATTGCTTTGTTATTTCTAGCTGTACCTTCTACTTGA

RS2879135

TCATCTCAGTTCACCCAGCTGGTAAGCGCACAAATGGGATTTGTGGGAGCC
TACACAGCCCTGAAGCTGACCAATGGTCTCTGGGACATGTATGACCCTG
AGTTAAGAGTAGACGCAGTTCTAGGTGATAGTTCAAGTCCCCCTGAGCTC
TGAAGTACATAATTCACAGATTTTTTTTTTTTCCCATCACTAATAACCAA
ACATTTGGAGAAATAACCCCTGGCATTCTTAAGGCTTCTGTGCATCAGAG

FIG. 10A

250/299

GTGGTCACAAGGTTTACAATTTAAAGAATATTTGGGGATTAAACTCAGAA
AACCAAGCCACCACAGTGCCACACTTCTGTCTTTTGTGGGTGTCTTAAAA
ATGAATGCTTTCTTATCGTAGTTTCTGACCAGAGGCAGCTTCCTTTAAAG
GCTAAAGGAAGCAGCCCGTCTCAGCTCCAGCAGGTCAGTAATGTGACGAG
ATAAAGGGCAGTTCCTTAATGAAAACCACTCTCCCTCCTGCCAG[C/T]A
AAGGAGTTTTCTTAGTGCATTTCAAGTCCTCTAACACCTCTTCCCAGATC
AATGGCTTTTCATAAATGCACCAGGAGATCTTTGAACCACTAATGCTTCA
GGGGCTGTTTAGGTTTGGAGTCAAACCTGTTTAATACTCTCCTCCA

SLT_504791

AGGTCAGCAGGACAGCCAAGCCCTGACTCAGCTTCCCAGCCACAGTGTGA
AGCGTATGAGTGTGAAAGTCTCTCCTTCAGAGAAAAGACCAGTGGTCCAA
AGACCCTGCCCATTCCCGTAGCTGTGCTTCCCCAAAGAATCTCTGAGGAG
GTTGACATAATGGTGAAGTGCTCAGACTCTGGAGTCAGGCTGCCTGGAGT
CAAATCCTGGTTCTTACCACCTTTATGACCTTAAGCAAATTGCATGCCTC
CTCCTTAGCCTCAGTTAACCCATATGTTAAGTGGAATAATATAATCCCC
CTTTATGATGTTGTTTTGAAGAGTAGTAATTATTATTGCTGCTTTTATTC
CATCTCTGAGAATTAAGTGGCCAGGTTATCACATCTTAGAGACTAAAT
CTTCCCTTCCTAGACAAATATGTGCCCC[A/C]AAAAAAGTCATATTTA
TAGTTTCTGGCTCTGAAATGACCCTCCCTAACTAGTAAAGATATTTAAC
TTCATCACTCTTTCTGTTATTTCTTTGAGTGGGGCTGACCTCTTCCGGCA
TATGGCTTCTAATGGGCTAGGTATAAAGTAGGCCAGAGAAAAAGAGGGTG
TAACTTCCCTGCCCTGTCCCTTCCCTCTTGTCCCCACCAAGACATGGAAAG
GACGAAAAGAACTGAGGAGTCCAGCTCCGCTATTAACCGCTGCCTGCCT
AGGGTAGGCTGAAAAATGGCTCTTCTAAAAATGCCTACATCCTAAACTCT
AATGTATGTGAATGTGTACTCCACATAGCAAAAAGGATTACAAATCAAGA
ATCAGGTTCTTCAAGTGGATAGATTATCCTGGATTATTTGAGG

SLT_525276

GGGTGCAGTGTGTGCAACAAATAACCCAGCCTCTTGGCTCGTGGCCTGGA
GGTGCAAGACCACCCACAGAGCCTGCCCTGGAGGCGAGCTGCTCCGCCTG
GTAACCATTTACGCAACGGCCATCACTTGAAGAACAATGTGAATGCTTGT
AGCAGCCTGGGGCCCCGAGACCAAACAGCCGCCATACACTCTGACCGCAGA
G[A/G]CAGCAGCCTGGGTGGGGGGGATTGTTATCATTTAATGAGATGCA
GATCAAGACAGCCTGGGTCTTTAATGCAGTGTGCCTCTTCTCTTCTTGT
TAGAGATTTGAGTGAAAACAGATCCAGGGGATCCCGAGGAAGGCGTTCC
GCGGCATCACCGATGTGAAGAACCTGTAAGTGATGTTTTCCTTGCTTAC
TACGT

SLT_526304

AATCAGTAAACATATCTATATGTATTCTAGGGTCTGGTGGGCAAGTGTAC
AAAATGAGCAAAATGATAGATTCACCTCCTTTTGCTCATTTGAGATGTTG
TTTTAATGTAGAATTACAGTAGCCCTCAAATGATGAGAAGCAGTGACAAT
TCATTAGCAGATTGTGGCTTAGATCAAGTGTTTGATTTCTCTGAGGAAGT

FIG. 10B

GTAACCAGTACTCAGTTATATGAAGTATATGCGTTTCTT[A/T]TGAAGA
TAATTTTTTTTCCCTTTTGTGTCAGTTAAAATAACCTTGAGCTTTATTTTTTTC
AAAGACCCCAGCTAGCAGCAGACAAATGCTTCTATAATTTGTTCTTCAAT
AATGATTTTTTAGAATGTTAAACTGTCATAAAAAAAAAAACCTTCAAAA
GCGCTTCTAGATTTCTATTCTCTGCTTAAAGGACAATTGGATAATAGGG
AGGAAAGAAATAGCATGTCAAGGCTGCTTCACATTTTGTCTTCTGCCTTG
GTTTCATGAAAGCAGGGATTCCCCCGGTTTCTTTTACAGTTACAATATT
CTATTTCTCCTCCGTCTAGAAAAAGAATACTTCAGATATGTACATTGATG
AACATATATATATTCA

SLT_533429

CCTGACAGCCCTCACGGTCATTCTCTGTGCTAGGAACGGTGTTGTCTTAC
CTCACCAGGAAGGCAGTCTGAGGGAGAAGAGAGGGCTTTACAGCCAGACA
CACCTGGGTGGGGCTTGGGTCAAGTGTCTTCATCTCTCTGAGTCTATCTC
CCCAACTTTTAAAAACAGACAGTGTATGTACTACATAGGAGGGGGCTCTCA
TAACTGCCATCCCTTCCACTTTCCTAACTTTGCCCC[C/T]ATACACCCT
CACCCCATCAAGCCCTTGCCCAGGACAGATTTGGACAGCTCTCCTCTAC
TCAGATAAAAAAAAAAAAAACAAAAAAAAAACGAAAAACGGTATCCAGA
TGCACCAGGTGTCTCCAAGTTGAAGCTTTAAAAACCTGTGACTGAAAGAA
AAAAAAAAAAGTTCTCATTCTTATCATTGCAAAGAGCCCATAGGATCTGA
TTAGTTTATCTTCTCAATTCCAAACAAAGCCAGATCAATAGGTTTGT
AAAGACACTCTCATTGCTTCACATGGCTAAGTACTTAAAATTAATCAT
AATCAGTTATTCCATGGGTTTTTAATTTCCAGCAGAGGCACACAGCTTTG
AAACCATCCATCTTAATGGTGAG

SLT_550503

GAGGGAAGGAGGGCTCCACCTGAATAAAAAAGTCAGGGCATGCTCTTCTC
GTCTGGAGACCTGTCCACTTGTCTTCAGCTGCTCCACTGGCTGGGCCATG
ACTGTTGACTCATGGTCTTGCAGTCACAACCATCCCTCCCCGACCTACT
ACAAGCATCTTGGTGCCTCCCCTGCTGCTGCCTGGCTGACCATCTCCCTT
[C/G]TCTATCTCCACAGTACCCTCAACAACAACATCAGTCGCATCC
TGGTCACCAGCTTCAACCACATGCCGAAGATCCGAACCTCTGTGAGTAAGA
AGTCTGTGCATCTCTCCCATTTTCTCCCTACCTCACGCCCAAAGTGCAGC
ACTCTACGCTGCTTGTCAAACCTACCATGCTATGACTAGGCAGATGGTTC
CGACAT

SLT_550582

GAAGCACTCAGTGCATAGGAGGGTTTCAGGAAGCGATACTCTTACTCAAG
GTGGGTAGGCAAGTCCTGAGAGGACAGTAGAGGGAAGGAGGGCTCCACCT
GAATAAAAAAGTCAGGGCATGCTCTTCTCGTCTGGAGACCTGTCCACTTG
TCTTCAGCTGCTCCACTGGCTGGGCCATGACTGTTGACTCATGGTCTTGC
[A/G]GTCACAACCATCCCTCCCCGACCTACTACAAGCATCTTGGTGCC
TCCCCTGCTGCTGCCTGGCTGACCATCTCCCTTGTCTATCTCCACAGTAC
CCTCAACAACAACAACATCAGTCGCATCCTGGTCACCAGCTTCAACCACA

FIG. 10C

252/299

TGCCGAAGATCCGAACTCTGTGAGTAAGAAGTCTGTGCATCTCTCCCATT
TTCTCC

SLT_556437

GCTATTAAAAAATGAGCTTTGCTCAGAACCCCGGAGGCATCCTTTGGATG
TGACCTGGCAATGAAAGGGTTGGGGCTCCAATGTTTTGGTAGTGCAGAG
GGAATTGCTTCCCCTGGGCTCCTAGGGATTTTCACACTGGAGAAAGGGGC
AACAGGGGTTTTGGTCACTCTGTCTGGCCAGTGACAGCCTCCACACTTCA
C[C/T]CTGTGACCATGCCTTCTCTCTGTCCCGCCCTCTCCCAGGCGCCT
CCACTCCAACCACCTGTACTGCGACTGCCACCTGGCCTGGCTCTCGGATT
GGCTGCGACAGCGACGGACAGTTGGCCAGTTCACACTCTGCATGGCTCCT
GTGCATTTGAGGGGCTTCAACGTGGCGGATGTGCAGAAGAAGGAGTACGT
GTGCCCCA

SLT_564530

CTTAGGATGCTGGTTAAGGACACAGAAGCCCAGGCAGCTCCTGACACTGA
CATAAGTTGACCGTTGTGTCTTGGCTCCACAGCCCCCCTCGGAGCCCC
CATCCTGCAATGCCAACTCCATCTCCTGCCCTTCGCCCTGCACGTGCAGC
AATAACATCGTGGACTGTCGAGGAAAGGGCTTGATGGAGATTCCTGCCAA
[C/T]TTGCCGGAGGGCATCGTCGAAATGTAAGTGCACCTGTCTGACACC
CCCAACAACCTGTCGCCGAGAAATTCAGCTCCCTGTCCCAGCCCATCACCC
ACTAGGCCATCAGCGTGTGGGGCTGCTGGAGCTGACCATTAAAAACACTC
AGGAATCTCTTTGCTGTCTTCCACACTTTCCCAGCTATGATAGCTTGGT
GGTCAA

SLT_564589

ACCGTTGTGTCTTGGCTCCACAGCCCCCCTCGGAGCCCCCATCCTGCA
ATGCCAACTCCATCTCCTGCCCTTCGCCCTGCACGTGCAGCAATAACATC
GTGGACTGTCGAGGAAAGGGCTTGATGGAGATTCCTGCCAACTTGCCGGA
GGGCATCGTCGAAATGTAAGTGCACCTGTCTGACACCCCCAACAACCTGTC
[A/G]CCGGAGAATTCAGCTCCCTGTCCCAGCCCATCACCCACTAGGCCA
TCAGCGTGTGGGGCTGCTGGAGCTGACCATTAAAAACACTCAGGAATCTC
TTTGCTGTCTTCCACACTTTCCCAGCTATGATAGCTTGGTGGTCAAGAG
CATAGACTCGAGATCAGAATCAGCAAGCTATAGCCTAGGGCCAGGGGTTCC
CACTG

SLT_578813

GTAGCCCCAACCCCCAGCCTACAAATCAGACACTCTGGAGTGCATTTTTA
ATCTACACCCCTCGTGAGGTTTGAGAAGCACTGGTCAAGAGTCATCCCAGT
GCCCAGAATCAGTTCTAGGAGCAGCTGCTGTGGCTAGGGACAGGTCATGC
ATGGAGGTCAGTGGGCAGCTGGAGCCATCTCCCATCTGCCTTCCAGTCA
[A/G]TGCCCTGCATTGTGCCTCCATCACAAACAAAATAGCAGAGGGGGCC
TTGAGCTGATAGGAGACTTGAGATGCTTGCTCTGTGCCCAAATGGCTGTG

FIG. 10D

253/299

TCCAGTCACTTATGGCTCCAGGTACTTCACCTCTCAGGGCTGCTGTTTCC
TTCTTGCAGAATTAAGAATTAAGACGCAGTTTGCCAAATGTTCTCACTTA
TACATG

SLT_579074

ACTTGAGATGCTTGCTCTGTGCCCAAATGGCTGTGTCCAGTCACTTATGG
CTCCAGGTACTTCACCTCTCAGGGCTGCTGTTTCCTTCTTGCAGAATTAA
GAATTAAGACGCAGTTTGCCAAATGTTCTCACTTATACATGGAATCTAAA
CAAAGCCAAACTCTTAGAAGCAGAAAGTAGAATGGTGATGTTTCAGAGGCC
[A/G]GTGGGGTGAGGGTGGGGTAGAGATGAAGATGACACAGATGTTTCGT
CAAAGGGTGCAAATTCAGGTAGACAGGAGAAGTAAGTTCAAGAGATCC
ATTGTGTTATACAACACGGTGAATGTAGTTAACAACAATGTATCGTATAC
TTGAAAATAGCTCAGAGAGTAGATTTTAAGTGTTCCTTACCACAAATAAAT
GATAAG

SLT_579597

GAGTACAGTAGTGAAAAAGGAGGAAAGAGTAGAACAAGGAGTTTGATCTG
TAACTGACTGTGAACAATCCATTGAGAGAACTCACTACCTTTGAACCAGC
CTAAATATGCAGTTTTTATAATAATAAAGAAAAAGACAAAGTGACCAAGG
TCAATTCCCAGCTAAACTGTCTATCACTTCTCCAATTCCCCTCTCCAGC
[A/G]CCTCCAAACCGTGGGGCATCTCACCTCATACTGTAGGGAGAGATG
GGTCCAGAAGTCTAGTTGTGGACTGAAAACCAGTTTGCCCTCCCAGAGCT
AAAGCAGAGGGTTTCCGTGCTGGCCACATAGCTTCCTCTTGCAACTAGAG
GTCTCAGCACCTTGAAGGGACAATTCATAATCAGGGGAAAAAAGACAAC
ACAGGC

SLT_580597

CTCTCCTTCCAGTGACAGGATCCCAGAGGCCATCCCTGAGCTAATGACTC
TAAGAGAAAGAATTTCCCCTCAGTGAAGGGCCATTAGCAAGAGCTGGTGT
CCAGGTTCTCAGAAGTCACTGGGATGCCCGTAATTGAGCAGCCTACAGGG
CCTCTGGGAAGGAGCCAGGGTCGAGGAGATTTCCTTTGCACCTGCAAAGCC
[A/T]GGTTAGCTGCCCCAGACCCCGGGCCCAGCATTAATAGAATCCTCC
TGGCCACAGCATCCCTCTTGCTCTCATTATCCAAAGCCTGGGACATTCT
TATGCCCTGGACTTGCTCCCAGATGAGGAACACACTGCCAGCCAGTGACA
AGCCACATCTCCAAGGCGTCCCTGAGAATCCCAGGATGTGCTTACATCA
CACAGC

SLT_581505

CCGTTATCGCACCTTTGAGCCATGTTCTCAGACTTTACCGTTAACGTTTT
CAGAGACATCAGCAAGAATCAGATATCGGATATTGCTCCAGATGCCTTCC
AGGGCCTGAAATCACTCACATCGCTGTAAGTGGGGCCCGAGTTGGGGCCT
GAGGTGAGGGGAGGGGGGGCGCTGGAGGGAAGAGAGACGCAACCATATTT
[C/T]TCAGGAGGTGTTTATCAAGACTTTATGTTCCCTTACACACTTGTG

FIG. 10E

254/299

GCAACCTGGTAAAAGAAACAAATATTTCTTCAGGGGAAATTGATCTTGGG
GAATATTTCTACAACCCAAATGCATTATTTTATTGATTAAGCGCCTGGC
AGCTTTCCCAGTTATTGGCTTCTAATTCGAATGCATCTTCTACTCCAACC
TCACGT

SLT_584969

GGATAGAGCCCATTTCTACTCACCTCCCAGACAACCTGCCCTTCCAGCCC
CTGGCTGCTCTTGGCTGCCTCTGTCTCGCTGATGAGAAGGGATTAGGCAG
GCCGTGGAAGGGGTTGTCCTGAGATCTCATACCCAGAACTGGCCGAGGTG
ATGGCTTCTGCAGGACTGGGTTCTGGTGGCCTCACATCCACAGTGATTG
[C/T]TGTCTTCTCCTTCTCTTTTCAGGGTCTGTATGGGAACAAGATC
ACCGAGATTGTCAAGGACTGTTTGTATGGGCTGGTGTCCCTACAGCTGCT
GTGAGTAGGAACTTTGTCACTGTTGGTGTCTTTGGTACTGTCGGAAGGCT
CCCACCTGAAAACGTTGAGCCATGCTCTGGAGAGTTCTTTTGACTTTCTG
CAGACA

SLT_585043

AGGCTGGGCTCAAGCTGATCAATACCCATTGAAGACACAGGGCCAGTCTC
CCACACAGTGTATTTATTGCTGGGGTGTGAGTCATATTAGCAGCTTAGGG
AGATACCACAAAGAGACCGCTTCTTCCTGTTGGGGATTATGTATTGGGCT
AGGTTGCCCAGGAATGGAGCAGGATAGAGCCCATTTCTACTCACCTCCCA
GACAACCTGCCCTTCCAGCCCCCTGGCTGCTCTTGGCTGCCTCTGTCTCGC
TGATGAGAAGGGATTAGGCAGGCCGTGGAAGGGGTTGTCCTGAGATCTCA
TACCCAGAACTGGCCGAGGTGATGGCTTCTGTCAGGACTGGGTTCTGGTG
GCCTCACATCCACAGTGATTGCTGTCTTCTCCTTCTCTCTTTTCAGGGTCC
TGTATGGGAACAAGATCACCGAGATTG[C/T]CAAGGGACTGTTTGATGG
GCTGGTGTCCCTACAGCTGCTGTGAGTAGGAACTTTGTCACTGTTGGTGT
CTTTGGTACTGTGCGAAGGCTCCACCTGAAAACGTTGAGCCATGCTCTG
GAGAGTTCTTTTGACTTTCTGCAGACAAAAGAGAAAAAAATGTTTGAGCT
GTCCACGCTTCACCTCCGTTTCTTATTTTATGAAAGGAGAGTCAGCGAG
CGG

SLT_589545

CAGAGAGGTGCTGTGAACTGCAGATCACTCCTTTTGTTATGGCTCAGCAT
AATTCACGGCTCTGTGTCCATGGAACCTTCTCTGGTTCATTGTTTCAGCC
CACTAATGTTTGCTCTATGAGAGGATAGTCAAGGAGCTGCTTGTGTTTAG
AGACCCAATCGAGGTGGGACAATGAGAATTGTCTCCAGCAGAAGAAGCAG
ACTGACTTGACGATGCGTTCTTGAGGGAAGGGTTCTTCCCTCTCTTGTGT
ACCTGGAAAGCCATTG[A/G]GTAGACTTAAATTCTGGAATCATTCATG
CTAGTCATTGAATGAATGGTTCACCCACTTAAAGGACGGATTGGTAACCA
TGTGGCAATCAGATAGGAAAGTTACCACCCTAATAGTCCTGAGGGAAGGA
ATGGGCAAGCCACCACAGGTGAGGTCACTTGATCTGGTAACCAATAATA
GTTCTCCCTCTCTGGTCTCTAGGAATCTCAGCTTTCATCTGTTTCCCTTA
GGAAAACCCAGTGGCTTACAGCCATTCTAGCACCCCTCCTATGTCTCTG

FIG. 10F

255/299

GGGTAGAAAGAGGTCTTGT TTTTCAGACAGGCCGCCCAATGGTGTGCTG
CATGCCTGGTTACTCTTGCATCGGGAATCACCATGACAACCCACAGCCAT
TGACAAGCAGTGCAGTCACCAACAGGAGAGAAGGGAAGAGCCACTGTTGC
CCCTAGTTGGGACTTGGAGGACTCCTCCTGTTTCCCCTTGAGTGTTAGC
AAGACGTGGCCTACAGCACCCATTTTCAAGCACAGAGAAGATTCTGGGCA
GGGTCAGAATTCATGGCTA

SLT_621478

CTGGGCAGCAGATCCCAGGGCCGCTCCCACAGTAGAAGGATGGAGGCTAA
GCACCCTTCTCTCTTCTAGAAACCTCCTGTCCAACCCCTTCAACTGCAA
CTGCCACCTGGCCTGGCTCGGCAAGTGGTTGAGGAAGAGGCGGATCGTCA
GTGGGAACCCTAGGTGCCAGAAGCCATTTTCTCAAGGAGAT[C/T]CC
CATCCAGGATGTGGCCATCCAGGACTTCACCTGTGATGGTAAGAAGGCTG
TGGGTCAAGGTCTGCGGGGAAGGCCCTGGGAAGGCAAGGAAGATGGCGAA
GATGCACAATCAGATACTCCCTGAGATCCAATTCCACTTTGCTTTGGGCA
TGCAGCTGGAGCTCTGGAGAGCTCTGCAGATCTGCTACTA

SLT_629874

CTCATTAGTTATCTCAGGCAGAGCTGCCAGCTTACAAAACAAAATTAAGT
TTAATTCACCAAGAAAAACAAAACAAAGTTGCCAGCATTCTCTCTAAA
GGGCAGAGTGTGAGAGGCTGTTGCAAGCATGCAAGACCCCAAGCAATGCCA
TCTGAGCAGGAGGTGATTTTTTCTCCAGTCAGCTCTCTATTAACCCCTCA
CTGGCCCTTCTCTCACA[A/G]TCTCCTTTCAGTTCTACCCTGGGTGAGT
CAAGCCAAACTGAGCCTCATCTCACATTCAGTCTTGCAAGTGCTCTTTG
AAGTAGGGCTACAGTACCAGTTGCCCTCTTTGTCTGACCCCAAATCCTGT
GCTCATGCCCATTCACCAGAGGCTCTTAAATGTTTAGGTCTCAGGACTC
CTTTATGCTTTTCAGAAGCATCCAGGACTCCAAGAACCTGTGTTTATGTG
GGTTATAGCTATTGATATTGATCATATTACTAACACTGAGAAAATGTTAA
AATATGCATTAATTCCATTTAAAGTAACAATTATATACCCATGACATGT
TTATATAAAAAGCACA

SLT_636323

ATTAATATCTACAGTCAGTTGACTTTTTAAACAATATATTTAGGAGGTAC
AAGTACAGGTTTCTTACATGCATATATTGTGTTGTGGTAAAGTCTGGGCT
TTAGTGTACCCATCACCCAAATACTGAACATTGTGCCCAATAGGTAGTT
TTTCAGCCCTCAGCACCCCTCCTACCTTTGTAGTCTCCAGTGTCCATTAT
TCTACTCGGTATGTCCATGTGTACCCATTGTCATGCTCCCACTCATAAGC
AAGAACATATAGTATTTGACTTTCTGTTTCTGAGTCATTTCACTGAGGAT
AATGGCCTCCAGTTCCATCCACATTGCTGCAAAAGACAGGATTTCACTTCT
TATTTATGGCTGAGTAGTATTC[A/C]ATGTATATAGATATTCCACATTT
TCTTTTTTTTTTTAATTTTTTTTTTAAAGTTCCAGGATAGATGTGT
GAATGTACAGGTTTGTTATGTAGGTATACATGTGCCATGGTGGTTTGCTG
CACCTATCAACCCATCATCTAGGTTTAAAGCCCTAGATGCATTAGGTATT
TGTCCTAATGCTCTCCCTTCCCTTGCATCCCAACCCTTGACAGGCCATGG

FIG. 10G

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TGTG

SLT_649164

TCCTACCATTCCCCCTCAATCCCAACCTATTGTCTTCCATCCCAGTCTAA
TAGTTCCGTGTGTGGGTTCACTGCCAGGAGGTGGGACCTGCCAATTTTAA
GGAATCTGCATGCATCTGTTCATAATTAGAGTAGTGATGTTTGGGGCAAC
TCAATATGTAAGAGGGAGAGAAAATGTTTGCCCGTCCATCTGTCTGTCTT
TTGGGGTG[A/G]TGGGGGTGATGGGGTGAACACCACCAGCCTGACCAGG
GTTTTCTCTTTCCTCAGCATCATTGTCCCAGTCTGGCACTACTACTGCC
ATGAGTTCATCAGCGGTACACGTAACCATAACAACACGCTAGCACTTGCTT
CTTGAAATACGAATTAGTAGGCTTGCCCCAGCATGGTGGCTCACACCTGT
AATCCCAGCACTTTGGGAGGCCGAGGTGGGAGGATTGCTTGAGCCCAGGA
CTTCAAGACTAGCCTGGGCAACATAGTGAAACCCTGTCTCTACCAAAAAA
TTCAAAAAATTAGCCAGGCATGGTAACATGCGCCTGTAGTCCCAGCTACT
TGGGAGGCGGAGGTGGGAGGATCATTGGAGCCTGGGAGGCAGAGGTTGCA
GTGAGCTGAGATCACGCCATTGCATTCCAGCCTGGGCAATAGAGCCAGAC
CCTGTCTCAAAAGAAAAAAGAGAATTAATAGGCTTTTAGCATCATC
ATTTTAGAATCA

SLT_657277

GGGCTCTGAGCAAACTGAAGGGTGGCAGGGCCAGGCACTGGAGGCCCTG
AGAATATGCTAAATTCAAATTAGTGGATGCTAACCTTCCGACCTGTGCCC
TCTGCTTCAGAACCTCCATGGCAATGACATTTCCAGCGTTCCTGAAGGC
TCCTTCAACGACCTCACATCTCTTCCCATCTGTAAGTAGCAGTGTTCT
[C/T]CCCAATGAACATTCAAAACATGAAAGCATGAAAGTGTCAGCGACA
ATGTCACTACTGTCAGCATTTTGGCAGATGTCCTTTCCTTATGCATACAG
TATATTATACTATGTATCCACACTATGCATATTGTCTTGTTCCTCCAC
CTCAGAAGCCTTCAAAGGAATCCTCAATTATGTAAACACTGTAAATATT
AATAAG

SLT_657307

GCAAAAATGAAGGCCAGAAAAGTGACGTAACCTTATCCAGCATTCCACGG
CTAAGAGAGACTGGTTTCTGATTTGCGCTCAGGTCTATCAGATTGAAAAG
TCCACCCCTTCTTCCGCAAACCCTCTACTCCCTCCATCCTTGCTGCTGA
GCTGGGCATAGAACATTCATGCACCCAGAGCAAAGGGGGCAGCAGCTACT
GCTAGGAGCAGTGGGGCTCTGAGCAAACTGAAGGGTGGCAGGGCCAGGC
ACTGGAGGCCCTGAGAATATGCTAAATTCAAATTAGTGGATGCTAACCTT
CCGACCTGTGCCCTCTGCTTCAGAACCTCCATGGCAATGACATTTCCAG
CGTTCTGAAGGCTCCTTCAACGACCTCACATCTCTTCCCATCTGTAAG
TAGCAGTGTTTCTCCCAATGAACATTCAAAACATGAAAGCAT[A/G]AA
AGTGTGAGCGACAATGTCATCACTGTCAGCATTTTGGCAGATGTCCTTTC
CTTATGCATACAGTATATTATACTATGTATCCACACTATGCATATTG
TCTTGTTCCTCCACCTCAGAAGCCTTCAAAGGAATCCTCAATT

FIG. 10H

257/299

SLT_658204

TCCCAGTCACAACCTGGGATGAAAGTCTAGCCAAGTGGTTTGAAGCTGCTC
CCTAGGTTGCTGGGTTTTCAGAACCTTCTCTGCAGAGTATATCCTCCAGTG
GACCTTCAACAGGGCAAGGGAACCAGATAATCAGATGGCCAGTGATCCA
GGAAGCTCCCTAAAGGAG[C/G]TAGGATGGGGTTGAGTTGAAGAGTGAG
TCTTACTTGCGTAGGTGAGAGCCACGCCTCAGAAGTGGAAGGGGCTGGGA
TGGGAGTTGAAACTTCCACAGGATTGGAAGTACACTCTGGAGATATTAAC
TTTGCCACAGTGAGAGACGACTACTCCGCTGGCCCCATATTGGATACCTCC
AGTCTAGCCAAAGTCTGAAAATGCATTTCCAGAGAGCCAAGGATATGAAG
GCTACTGGCCAAGCTGGGCAGGGGGCCCTGACTTCCTGTTCTGCCTCCTA
GGGCGCTGGGAACCAACCCACTCCACTGTGACTGCAGTCTTCGGTGGCTG
TCGGAGTGGGTGAAGGCGGGGTACAAGGAGCCTGGCATCGCCCGCTGCAG
TAGCCCTGAGCCCATGGCTGACAGGCTCCTGCTCACCACCCCAACCCACC
GCTTCCAGTGCAAAGGTAGGTGACGCCC

SLT_661457

TGGCTGAATTAATGGGACTCTAGCTGGACTGGATGTGCTGGCTGAGGAGA
GCCAGCTGCCATCTGGGCATGGAGTTGGGAAGGGGCTGGCGCTGGCTGAG
GGAGGGCCCAGAGCAGAGGGGAAGGGAGGTATGGCAGTGAGCGCACTCAG
GACCTGCCATCAGTACTCTGGTTTTGCTGCCCAGGGCCAGTGACATCAA
[C/T]ATTGTGGCCAAATGCAATGCCTGCCTCTCCAGCCCGTGCAAGAAT
AACGGGACATGCACCCAGGACCCTGTGGAGCTGTACCGCTGTGCCTGCCC
CTACAGCTACAAGGTATGCTGGAGGCCCTGCCCCCCCCGTGTTTCATGCCTC
AGGCTCCTCCTTCAGCCCTGGCCCTAGAGAGGGGCACCATGCCCTGCGTA
CCCTCC

SLT_661589

GGCAGTGAGCGCACTCAGGACCTGCCATCAGTACTCTGGTTTTGCTGCCC
AGGGCCAGTGGACATCAACATTGTGGCCAAATGCAATGCCTGCCTCTCCA
GCCCCGTGCAAGAATAACGGGACATGCACCCAGGACCCTGTGGAGCTGTAC
CGCTGTGCCTGCCCCCTACAGCTACAAGGTATGCTGGAGGCCCTGCCCCC
[C/T]GTGTTTCATGCCTCAGGCTCCTCCTTCAGCCCTGGCCCTAGAGAGG
GGCACCATGCCCTGCGTACCCTCCCTTCTCCAAGGGACAGCCTGGATGAG
TCCATCGCACAGGTCACCACTCCAAAGCAGCATTTGCCAGTAACACTGTT
CTCTGAAGTACGGGAGCTGCCAGTCAGAGAGGGCCCCCATATGGTCTTGA
CAAGGA

SLT_673223

TTTCCCACCCGTGTCTTCCTCTCTGCCATCCCAACCCACCTCTCTCCCTG
ACCCCTGACTCCCCTGCTCTCCACCCCTCACATCCCAAAGCTGCTCCTGC
CCTCTGGGCTTTGAGGGGCAGCGGTGTGAGATCAACCCAGATGACTGTGA
GGACAACGACTGCGAAAACAATGCCACCTGCGTGGACGGGATCAACAACT
[A/T]CGTGTGTATCTGTCCGCCTAACTACACAGGTAAGGATCTCATGAC
TGTATGTATGGTGGGGTGGAGGGGTGTCGCTAGAATAACATTTTCTTAAC

FIG. 10I

258/299

TTCCTCCAGGGACTCTCTTCTCTCTCCCTGAGGACAGAGACTAAGACCC
CAAGACTGTGATATGCCAAGAGGGGCTCCCCAAAGGCCTGTTTGCTTCTC
CGTGTC

SLT_673235

GCTGGGGGAATGATGACACCGGCCTTGTTGGTGGACATTAGCCCCAGAGC
GAGGCAGCCAGCATGGGCCAGGGGAGATAGAACATTGCCTGGAGATGGGG
TTGGATGAAATGACCTTTTAGGTTCTTAAGGGTCTTCCTGCTCAGGACCC
CAAGGCCTCATGTGTCCAAAGTGCTTTCTCAGACCTCCATCTGGAGGAAA
AACTAATTGTATTTCCACCCGTGTCTTCTCTGCCATCCCAACCCAC
CTCTCTCCCTGACCCCTGACTCCCCTGCTCTCCACCCCTCACATCCCAA
GCTGCTCCTGCCCTCTGGGCTTTGAGGGGCAGCGGTGTGAGATCAACCCA
GATGACTGTGAGGACAACGACTGCGAAAACAATGCCACCTGCGTGGACGG
GATCAACAACACTACGTGTGTATCTG[C/T]CCGCCTAACTACACAGGTAAG
GATCTCATGACTGTATGTATGGTGGGGTGGAGGGTGTGCTAGAAATACC
ATTTTCTTAACTTCCTCCAGGGACTCTCTTCTCTCTCCCTGAGG

SLT_680684

TGCCTCTCTTTAGTTGATGGAGAAGTACTATATAGGTCCTTGCTACCAGA
GGTTCTTGAACCAGCAGCATCAGCATCACATGGGCGTTTGTTAGGAATGC
TAGTTCCCAGGCCCCACCCAGACTCCCTGAATCAGAAGACACATTTTAAC
AAGATCCCTGGGTGTTTTGTATGCTCATTAAGTTTGAGACTTGCTGGTA
TTGAGAGGGCTGTAGCATTTTAAAAGAAAAAGAAGGTCAATACATTTGCC
TCCCGACCTCCACTGCTTAGTCTGAGAGTGAGAATAGCTTCCCTAATTCT
TAATAAAGATCTCACCAGTAGCCTTGAAGTCCAGGCTTAAAATATTGGAT
TTATCTTGTAAGTATTGGCCAGCTATTATTGCCTTGGAGAAAGTCATAT
AGCTTAAAGTTG[C/T]TCTGCAACTACTTTTTAGAATTCAAGAGACACAC
AGATGGCTTCCTGGGCCAAGTTTAACACAGTAGCAGAAGTATACATGGTG
CTGTATTGAGCACATGCCCCCTCAAAGGCATTCTCAATGTGTTTCCTTAAA
AGACTGGTTGAACATGTAAGTTTGTACTTCCAGTGCAGCAATAGGTTATG
TATTTCAAATTTGCCAATCAAGTAAACGTGAATTGGTCAGATCTTA

SLT_683623

AAATGGGAAATATGGGACTTAGAGAAGGAAAAGGTCTTGCCCCGGTTAGT
GGCAGGGCTGGAAGTAGCCCCTAGAACTAGTGTCATTTCCCATCTCACTC
TACCTCTCTGCTCGAGGTTCTTTGGCCTGAGTAACTGTGATTGTCTCCTC
TTGGCCATTCTCCTATCTCCCTCCCCATTCTCTCCTGCCTTCCAGTGGAC
[C/G]CTTCTGTGAACACCCCCCACCCATGGTCCTACTGCAGACCAGCCC
ATGCGACCAGTACGAGTGCCAGAACGGGGCCCAGTGCATCGTGGTGCAGC
AGGAGCCACCTGCCGCTGCCACCAGGCTTCGCCGGCCCCAGATGCGAG
AAGCTCATCACTGTCAACTTCGTGGGCAAAGACTCCTACGTGGAAGTGGC
CTCCGC

FIG. 10J

259/299

SLT_687289

TAACATAAATCTTTTCTTCCATTAAAATCTTATATTAACTTAAGAATTGT
AAATACTTAGAAGCAAAACCGCCCTGCAGTGTTGAAGCAAAGATCCCCC
TCCACACACACTGTTGTCAAGGCCCTGATAAATCATCCAACAAACCCAA
TTTGAAAGCCATTGGTTAAAACCAAGTGGTTCTCAAAGCGTGGTCCCCAAG
GCAGCAGCACCAGCATCACCTACAGACATGATAGAAATACACATTTTCAG
ACTCTACCCAGAACTACTGAATCCAAAACCTAGGGGTTGGCCCCAACA
CACCTGTGCTTCAGAGATCCTTCCAGGTAATTCTAATGCACAAGTCTAGG
AAACACCAGTTTCCAAAGGAAAACCTTCCTGCAGAAAGAGCAGTCTGAGTT
GGGCCTTGAAGAAAGGGAAGAAGTGTGAGAGCAGAGAGAACAGGTGGGC
AAGGCATGCTGGGAGGTCAGCAAAGACAGA[C/T]GAGGAGCAAAGAAAA
GGGTGTTGACCAGAGCAAGAGGCTCCCAGTGGAAGGTGGATAAAGACCAG
GCAGGTTAGGACAGTTGGGCACAGTGGACACCAGAAGAAAGAGCTCACCC
TGGTGGTCTCCCTAGAGCCTGGGCCGCCTAACATCTGTGTCCCTGGAGCC
ACAGGTCCTGGCCAAGTGGAGAGGACAGAGAGCCAAGGAGGCAGGGCCAG
GGCAGCCTGTGAAGCAT

SLT_696007

AAGAACAAGCGTGTTGAGTAAATAGTGGTCCAGGCAGCATGCAGATAGAG
CAGGATTGAGAAGGTGGTCTGGGAATGGAGTTTGCTTAAGTCTATGAAAT
AATAGAAAAGAATACAAATAATGATAGCCAAATGCAATACCTGACCCTAG
ACTAAATCTTGGACTGGAAGGAAATAAATGCTGTAAAGGACAGTATTGGG
TCCAATGCAGAACTGGAATACAGATAATAGACTAGATAACAGTGTGGTAT
CCATGTAAATTCACCAAAGTTGACAACTGCACTGTGCTTATATAAGAGA
ATATCTCTGTCTTAGGAAATGCACACTGAGGTATCTAAGGATAAAGGGC
TGTAATGTATGTAACCTTACCTTTAAATGGTTCAGAAATGTGTGTGTGTAT
ACATAAAATGCACAGAGAAA[A/T]CCATAAGCACATTGGAGTAATGGGA
GAACTGGGTAAATAAGCATCTTCTGTACTGTTTTTATTTTGCACCTTAT
GTAAGTTTAAAGTTATTTCCAAATAAAAAGTAAACAAAATGTAAGCAAT
GCAGGTCAAGTCCACAGCACAGGGCCCAGCCATGGAAGGCCCTTAGTGAA
CTCTCCGGCTTTCTCCCTTCTCTACTGGCCAGTGTGGAGACAGTGAATG
ATGGGCAGTTTCACAGTGTGGAGCTGGTGACGCTAAACCAGACCCTGAAC
CTAGTAGTGGACAAAGGAACTCCAAAGAG

SLT_697143

GGGTGACAGAGTGAGACCTTGTCTTTAAAACAACAACAAAACACAAAAA
GTAGCCATCAGTTAGGCAGACTCTGGGCCTGAAATGCAGCCCCTGCACTG
ATAGTTCTCAAGGG[C/G]TTAAGTGTAAGGCTACCAAACTGCTC
GTTCAATCCTAAGATTCCCAAGACTTTACCCAGAGTCCACCTGCAGAGAC
TAGCACGGGCCCAGAAGAGGGTGTGTTAATGGGTGGTTCAGATGTAGGG
AGGCCAGGGAAAGCTCTGTGCCGAGGGCAGCCCCAGAAGGGACACCACTT
ATCCCTGGAGGAGGACCGTGCCCTGTGCCCCACCTGCTCCAGGTGCACCC
AGAACGGAAGTGGGTGCCCTGCTTCCAGGCCAGTCCCAGGCTCTCAACTA
TAGAAGGT

FIG. 10K

260/299

SLT_703026

ACCAATGCCCTGACTTCTATGCCCTCTGCAGAGAATCCGTGCCTGGGACA
AGTAGTCCGAGAGGTGATCCGCCGCCAGAAAGGTTATGCATCATGTGCCA
CAGCCTCCAAGGTGCCCATCATGGAATGTCGTGGGGGCTGTGGGCCCCAG
TGCTGCCAGCCCACCCGCAGCAAGCGGCGGAAATACGTCTTCCAGTGCAC
[A/G]GACGGCTCCTCGTTTGTAGAAGAGGTGGAGAGACACTTAGAGTGC
GGCTGCCTCGCGTGTTCCTAAGCCCCCTGCCCGCCTGCCTGCCACCTCTCG
GACTCCAGCTTGATGGAGTTGGGACAGCCATGTGGGACCCCCTGGTGATT
CAGCATGAAGGAAATGAAGCTGGAGAGGAAGGTAAAGAAGAAGAGAATAT
TAAGTA

RS1036205

AAAAGTACAAGAGCAGACAGCCTCCAATTGGGTCAGCCCATTTCATGGGTT
TGTCCTACTCTCTTTGTTTCCTCTCACTTTTCCTTTTCTCACTACCCTTGC
CCTTTCTTTCTTCTTCATGGTAGTTCCCTTTTGCCTTTTGTCTCTCCCTC
TCTGTCTTTTTTTTTTTTTTAAATCCCTTTGCCTTCTCCCCTCTTTTT
TTTTTTTTTTTTTGGCATTTCCTTCTTCTCTGAGATTGT[A/G]GGGAA
ATGTTGGAGGGGACTTCTGAGGGTGACAGGGCCGGGTGCCTGGTGCAGAA
TGCAGCCACTTGGGGGAAGTAATACCAGATGTGACGCTGGTGCCAACAAT
CAGCCTGAAATGTAAACGTGAGCTGAGCTCCAGTAATAAACCCCTTACAG

RS1432910

TCAAAACAAATTCTATTAGGTGACCCGAAGGCTGAAAGGTTGACTGTGTT
TAACTGGATTATTTTACATTTTCTCAGTTTGTGCTTTATTTATACGCAGT
AAGTTTCACTCAATCCACCTG[A/G]CTTCTTACCTTTTGTCCAGCTTGA
AAAATGAAATGAGTTTGGGCTTTGGCACTATGTGTTTCATAGGCTCCTAA
TCTCTCTTTGTATGTTTTGTTGGCCAATAATACGTAAACTATGCCCCAG
GCTTTCTTGAAGTGCATGTAAATATCTGCCTCTCTCTTATCTCCCATGGT
AGTAATTCATCCAGGAACTTACTTCCAACAGGTTAGGTATTAACTCTC
CCTCACATAAATCCACATTGGATGTCTCTGATCAAATTATAATTTTCAA
GTATTCCATCACTATGTCCAGTTAAATCGTTCCTAATATTTTCCCATGAC
TGGGTGACTTTTTTAAAAAATCTTGATTGTGCTACAGAAGTGTTTTCCCA

RS1560666

GTGCTCACAATGTGCTGTACAGATGTTT[C/T]ACTGCCAGACCCTACTG
CCCCCTAATTGCTTTGTGATTCTTGCTAGTTACAGTCCCTCTAGGCAA
TACCACCTCTTTACCTATACCAAAGCACAAAATAAGGCACCTTTTGGGG
GGTAGGGAAGGGGTCTCCCTCCATACACTGTCTCCTACTTCTTTGTCCAT
CATCAAATCCTTCTCATACTCTGGCTTCCCTGTTCACTGTGTGACTCC
CATTCATCAAGTGATAAATTCAATCATTAAATTCAATATGTCCGTAGTGAG
TGATATATTATACTAAGAACTGTGCCTGTTGTATCCCTAGAGATATAGCA
ATGCACAAAACACAGTCAGTTACTGCGTCTAAGTGCTCACTAAATGTAGT
GGGTGAAATGAATGAAAAGTGAGCACAACTTAACAATCTGACTCGGTGT
ATGGTAAAATCGGAGGACTCACCAGGTGCTATGGGAACATGAAGTGATAG

FIG. 10L

261/299

CCACAAACTCTTCTTAATTAGGCAGAGAATGCTTCCTGTAGGATGGAAGA
GCTTGCTGTGGTTTGGCTCCTGGGTCTGCAGTTTACAAGCTGTTTGA
TGGGCAAGTCACTGTACACCTCTGTGCATTTAAAATGTGATAATGATGTA
AAAACCTTAGTACAGCACCTATCACATAGTAAATACTCATATACACATATT
CATTCACCTCCTTCTTTTCAGTAAAAATCATCTATTGAATACCTACCGTGTG
TCAGGCAATGCCCTGGAAAGTGTGGATGGTGCACCCAGGTCTTGAAATAC
TAATATTTCCAGGAAATAAACTACATCATCTCAGTCTTTTTTTTTTTTTT
TTTTCTGCATGGACTACACTTGAAGAAGTCTTTGAAGTAACAATAGTA
GAAGTTCTTTTTTGCTGTCTGTTGAAGCAGCAACTCAGAGGATTTTCCTA
GGTGTGAGGGAAAGCCCCGGGCAGTGAGGAAGTAGCAAGTGAAGCTGTGCC
CAAGTTGCACGTTTAGGGTTTTCATCTCACCAGCAGCTCCAGCCTACAGG
AGTACCCCTCCCAACCCCATCCCTGTCTCAAATTAAGGTCTGCTTAC
ATAGCAGGGCACAAACAGGAATGCATTGTCGTCTTCTGTTGCTGTCACAAG
TGGTCTGAAAACCTTTAAGCTGTGCAATCCCCACTGCTGCTGAATACTT
GAAGTTCTTCTATGAAACCTTAGCATGACCCCGCATCTCTGGTGCTGCTT
CATCTCGCAGAAACCTGTGAACCATGGAGGAGTCTTCTCATCCCGTGAT
GGACAGAAGGCTGCTTCTTCAGAGAGAGAAGTATGAGCAGTGGGAAGCTA
AGGAAGCTTACACTGTTGTTGATGATCAAAAAATGCAGCAATAAGCACTA
TCCTTCTCCAGGCCAGAAACAGAGCTGGGGTCTACAGGCCAGTTGAATT
AAAAAGGGGAAGCCCCACTGTAGAGACATTCTTTTCTACAACCTGCC
CTTTTCTTTTTCTTCTTTTTTTCTTGAGATATAGGTAACATAAGATTC
ACCATCTTAAATATATCATTCAGTGCTTTTATGCTATGCCTTTTTTGG
GGGACCATCACCACTG

RS172472

TTGCATGACCAGTGAGGACTAGTGATGTGTGGTAGTCCATCGTTGCCTTG
CAAGGAGGGAGGCGATGCTTCCATGGATTGTGGGTCTGAACTTACTTCAG
GGAAATTCCCTGAGGTGGGGTTTGAGATAGGTTTATTCACACGAGACTGT
CAGTGGTCTCAGAAGGCAACGGTTTGGACCGAACA[C/T]GGCAACCTCA
TCACCTTGCTGGTTGAAGCAGCTCCTGCCTTTTTCCCACTTCCTAGCGCT
GCCAGTCTAGGAACCCTGGGTCTGGGGGTTTATGATTTTGTGGGAAAAGG
AAGAAATGTGTTGAATTTTGCTTTATTCTCTTCAGAGGTCCAGGGTAAAA
TGAGGAGAGGGGAGAGTTGGAGATACTTCTATTTATTAGTGGGAGAATT
TGGAAGCCCAGGAGCTGGAGTTGCAGGTGAGGGTGGAGACTGTGATTCAT
GTATTGTAGATGTCAGGCAAGTGCTAATTAAATTATCGACAGTGAACCTG
AAATCATGCTGGCAGTGACTCAGTTCATGGGGTGTACTGAATTGCCTAAG
GTACACCTTTCTGAATGAAGCGACACAGTCC

RS182435

TGAGCGGTGCTGACTGCTGGAGAGAGAGCAAGGTCCATATGGCTTCCTTA
TGGGGGACGTGGAAGTCACCAGCCCTGCTGCAGCCAAACATGGAGACATAG
TCATGGCTCTCACCTGCAGGAGCAGCTCTTAGGCTTTGGGGTAGCCTG
GGGCCAGATTCTGTTGCCCTGAGCTTCAGAAACAGGCGAAGGAAAGAAAG
[G/T]TGGTGTGTAGGAAAGGCCTGCAGATATTACCAGCTTGTCTGTGGA
AGCCACAGACATCTCAGGGTGAAAACAGAGACCAAAAAGTACCTCTTGCAA

FIG. 10M

262/299

AATAGTCATTAGGCTGTGAACATAGGAAGACGAGAAGATATAGTGGAAT
AATAGTCAATAACACAACCACGAAGCAGCAACTATTATTTGTTGAACGCT
TACAA

RS188431

TAACCCCGCTCCCCTGCCGTGTCCAAGTCCAATTCCAAGTGTCTTATAA
CCACAGTTTGATGCTGCTGGCTCCTCCCCAGCTCCACCTTTGCCTGTGA
GTATATGTATCTTTCAAAAGTCATCTCTTATTTCCAGTAACTCCAAATAC
AAGCCGCCTTTTAGTGACAAGCAGATGAGCGTGAGCTGCAGTCGCCTGGA
[G/T]TGTGCAATGCTGTCACCAGAGAGAAGTCTAGTAATTACATTTGCCA
GGCTCACCGTCCATGTTGGCTGGCAACATGAAGGGATCAGAGAATTCTTT
GAAACAATATCCAAGTTCTTGGTTAAAAGAGATACAGGCTGGGCGCGGTG
GCTCACACCTGTAATCCCAACACTTTGGGAGGCCGAGACAGGTGGATCAC
TTGAG

RS188432

TTTCCTACGTATGTACTTTATTGTTGTTGCTTCAAGAAAAATACATGCA
AAAATCCTGGCATCAACAGATCCCCTCTTTCCTCCCCTTCTTACCCTAGT
CACGATTACTTAGACTTTCTTGTAAGAATAAGAAAAGATGACTAAAATGTC
AAACCC[A/C]ACCATCATCCCAAAATGTCTGGTCCAAAATTAGAACAG
GAGAAGACAATCAATCACTCCCAGGTTACGAATCATGACCCAGCCATAAG
CAGAGTCTCTCGGTGATGTATTATGTTTATATCTGACTCTCCTTCTTGAC
AGTTGGCCTTCTGTGATCAGTTTCTGCATTGTAAACTACTCCAGATGT
GAGAACAGCTCAATAGCAGAGCTCTCAGCCTAATTAATTCAATCACAGGA
TGGTGATTAAGAGGTGAGCGGTGACATTTCCAGAGTGCACCTTCTGTCTT
CCCAGAGTTAGCTTGTCTTAAGGCTCCAAAGCCCTCAGGTGGCTCTGGA
GCCACAGGAGCCCTTGGGGGCCTTGTCCCA

RS1982063

ACTGGTAGAAACACAAAGTAGGGCTCCCAGGGAGTTGGCTTTGTGATGGT
CCAGCTGAGAAATAGTGAGAGCTGGAAGTAAGGCAGTGGTGATGGTTATC
TGAATAATTAATAATTACTGTCTACTCACTCCCGAAAAACTGCAGTCCCT
CTAATTGAAGATATATGTTCTCTCTTAGAGAAATGAGCCCCTTCTCAGGA
CCTCATACCCACACCTTTCCCCACAGTTGGATAGACAGACGCATCCGTCC
TGCTCTGGGAACCATAGCTTATAGTTTTTTGGCTATCCTGAATTCCAAGT
CACCGCTCCCAAGAGAAAAGCAGTGTTATCACTGAGAACCCTGTTGGATG
AAAACATGCCCTCAGTAGATCACTTTCTGAGTAGTGCACACCTTTCCCA
CAGTTGGATAGATA[A/G]ACACATCCATCCTGCTCTGGGAACCATAGCT
TGTAGTTTTTTGGCTATCCTGAATTCGAGGCACCGCTCCCAAGAGAAAA
GCAGTGTTATCACTGAGAACCCTGTGGATGAAAACATGCCTTCCGTAGAT
CACTTTCTGAGTGGTGAGATGCTGAAACAAACAGTGGAGAT

FIG. 10N

263/299

RS2163783

ACTGGATTAAGCAGCTAACCTGCATTATTTTGCTTAACTCGGTCAGTGTT
TCATACAGCAGATAGTAGCGCTATTCTCATTTGATAGACGCAGAAAGTGA
GCCTCAGAGAGGTTAGATAAGTGGCCCAGGCTCCTCCGTGAGTAGGTAAT
GGCCGGGGTTCATCCCAGGTCTGACTGAAGAGTCCATATTCTTTACATCT
TTGCCTCACTGCCTCTTCATGTAAGCTCTGGACCTGCCATCATAAGACAA
ATGGGAAGAGGTGTCCTACCTTCCTAAAGGCATTTTCCAAAGTGATTTCT
GAAGATATCTGATATGGGCAACTTTCCAGAATTAGTTCAGTTGTTAAAGG
TTTCACGGATGAATAAATGGTGTGGGGGATGGGGGTTGAGAAGAGGTCAG
AAGGAGAGACAGCGTGGAGAATGATTTCCAAGGCTGGATCTTTTCTTTAT
TTGATTCTAGTAAATTTTAACGAGGCCCTTAATAAAATCCCAGTGCTTAG
CAGAGCCTCCACATTTACAAGTTGCCAGACCTGGGGC[A/G]GAAGAAGG
GAAGTTGGAATCCTGGCGCTCAGCTTAGTCCTGCTGACCTTTCACAGTTC
AGGCGAGCCAGGCTTGTAAAGATTGA

RS2668054

GAGGGGTGGTTCATGAGAATGACCATATCGAAGAGTCCTTGAGAACATAG
ACTTTGGAATTATGCAGATCTAGGTTATAATCCTGGCCCTACCATGTACT
AGGTGTGTAAATTTGGCCATTTAATACCTCTCTAACTTTAGCCTCTGTAT
TGCTAAATGGGAAAAATATAGTATGTTCCATGTAGTGAGTAGTTAGGAGA
[A/G]AGGAAAGAGATTTTCATGATAAATTACCAAGGAATGGGGGCTGGGC
TTATAAGAAAGGGTCTGGCATCAATCCTGTGAACAAAACACTAGGATTAG
ACCCATCACCTCTAAAGCAGGAAGAAGGAAGTTAGCTGGGATATGGGTGG
TGGGCCAGTGATTGCAGAGGCCCATCAAGTAAACCAAGACTATAATAGGG
AAAT

RS295981

ATTAGCCTGTTTCTCCCTCAGACCTCAACCTTTTGTTGAGGGGAAGAAAC
ACTTGTGGTAGAAGGAAACATAATTAATGGAAGGATCATGTGCATGGACT
ATCATCTTATCAGTGATGATAATAGGCCTGGTTGCCTAGATCTTTCCAGT
CAGCCGCCATGTTCTGTCAGCATAGCTTTCATAATGTCCTCTTCCTGTCA
TTAACAATGTCTTTGGGTTTCTGGGTTTCTGTCCTCAAATTCATCCTGA
ACACCATAACTAGGTCGTTTCATCCTGGAGAGATATCTTGGTACTTTGCCT
CCCAATGTTTAAAGGCTCCCTATTGCCAATGATGAAGTCCTAACA[C/T]
TGTATCCTGACATCTGCATCCCTACACAGTATGATCTCCGCTCATGTTA
TGATCTTCTGTCCCACTCTTCTTCCGTGGGAACCAGACCATTGAGCTCTT
GGGCCTTCAGACACCTGTCTGCTCACCTCTCTGCTCAGAGTTCTTTGCC
GGACTGCCCTGCAGTAATGATTTTTTTGCCCTGCAATAATTATTGCAATA
ATAAATACAATAATAAATGCAAAAATAATAAAAATAATCCAAACAATAAT
TATTGCCCTGCAATAATTATCTCTCCATATCCTCATCTCTCACAGAGA

RS295985

GCTCTTATACAGCCCACTCCAGCATAGCTAAAATTTAGGTAAACACTTTC
CTCACTCTGAGTTTTAGAAAGCAAGTGTTTCTTAACAAAATGCCTTCAACT

FIG. 100

264/299

TCACGATATTTTCGAATACAGCTTTTATTCCAGGATTTAGAGACACAGAC
ACCACAGCACCAAAACACACCAGCAGAGAAAGCTCCAGGTCCTCACTCAG
[C/T]CCTGATGCAGACACTTTATTTCCCTACGTATGTACTTTATTGTTG
TTGCTTCAAGAAAAATACATGCAAAAATCCTGGCATCAACAGATCCCCCTC
TTTCCTCCCCTTCTTACCCTAGTCACGATTACTTAGACTTTCTTGTAAGAA
TAAGAAAAGATGACTAAAATGTCAAACCCAACCATCATCCCAAAATGTCT
GGTCC

RS295994

CAAAATACGAGAAAAAATCACCAAAGCTCATGACCAGGAGAAGATGATAA
GGCTGGAGGCTTGCCCCAAGGTGGAATGAACGCCTGTGCTCAGTTTCCAA
GGAGAAAGCTGACCTGCCAATCCATTTGTTGACCCAAAGTTCATCAATGC
ATTCAATGGTTCTTTGACTTAAGATTAAATAGGACCCCTGTGTGAAATTG
[G/C]CTGTTAGTTTTTAAAGCCTTTTCATTTTGACAGGTGAAAACCTCA
TCAGAATTACCCTATGCAAAGATGTCAGGAAAAATATACAAGAGGAAATT
GGAAAATGTGATTGAGCTGAGCGTACGCTTCCTCTGCCCTGGAGTTCTGC
GTGGGCTTATTTATTTCTTGCCCCTTTGCTCTTCAGGCATTTTCCATCAC
TGAGG

RS295997

GCTTGTGATGAGGGTCTGTACCAAAGGCATGAAAGGGGAGGAGAGATGAG
GGAActCAATGGACATTTCTGTCAAGTGAACCCTTCCTTAGTATCTCCAA
TGCAAAGTGAGTCATTTTGATGTGGCCATCTTGCTATAATCATTCCAGTG
CCAAAATTGTATCAACATGCAAAACACTCTTTAAAAAAATCACCAAGTATT
GAGTCTAACCCTCATCATCCCTGATGCTTCACCATCTCCGACATCCTCCT
CAATCTTTGTCTCAGTTCTGAGCTTCCCCATCCCTGATGCTACTGTACAT
ACTGCATCCCCTCCCTGTCTCCCTGTAGCATGCAAAGGCATCCCATCTTG
CTAGGCATCACAAACAGATACTGATAATTTACTAACTTCATTTCTAGGTCA
CATCAAAATGACCCTGTGTCAAAGCAGTGGGCCAAATATCACCCATCCTT
ATGTTGAACTTCAAAAAAGCAAAAGTCCTTCAGTTTTTGCAGACAAACCT
GCAAAAGAGAGAG[A/C]GCTGGGGAGACAGTAGTACCCTGTAGAATCTT
TAGCCAAATGCAGCTTTGCTTA

RS295998

TACACACACGTGTGTGATTTGGGTGTGGGGTGTCCCTCGTTAAAAGGGATG
ACGTTCTTTTATAGAAAGACACTTGGTCATTTGGCTCCATAGAAAGGGA
AGTTCTTCTGAGTAATTTCGTGACTGAATAATTAACCTCTAAGGCATGAA
ACCCCATGTGTGAGAAGAAGCCTGCTTTCCAAAAAAATCAAGCC[A/G]
GGGCCAGGGATACCCATTGGGAAGGCCAGGCAGCTTGCCTGGGGTCAG
AGTTTCTCTTTGCTCTGGGCATCCTTTCTGACAGGTTTTCCCAAATGGG
GAAAAAGCACTTGTCAAGTATATTTTAAAAATTTTTTAAAAGAACATTTT
GAATAGCCCCTGCTTCAGGCTCCCTGGGGGTTCCCTACTTATATTTTAA
AAGCTCAGGCCTTGGCAGGTCTCAGCTTTTCAGTTGGCATGAAACGGACT
GAAAATGCACT

FIG. 10P

265/299

RS296001

TTCTTGGGCCCCAAGGGGATTCCATGTTACCATTCCTCCTAGGCTCTTCT
AGCTTTGGACTGGATCCCTCATTCTGCTGGCTCTGCTGCAGGCTTGAACC
TACCTGTTTGTATAGACCACACACTCTACTCTGTTTTTCACTTACCCCC
AGCATTAGCAGTGCCAGAGAGAGGCTTGGCAGGGTGATGAGATAAGTGTA
[G/C]GTGAAGCAGAACAAGGCGTTCCAAGCTAAAGGCCAGTCCTCTCTC
TGACATCTGCTCCCCAGGAAAGAAGCTGCTTTCTGGCTCATGGTCAGTCT
GCTTTCGTTCAAGATAAGCCCAGCAAGTGGGCCTGGACCTGCCTCTTCCAG
CTGGCAGATGCCCTCCTTGCCTTCGGGGCACACCTTAGATGTTATCTTTT
CCTTG

RS296008

AGATACCTGTGGGCTGGGAGTCTGGCCAACACTTGTCAAAAGCTTTAAAG
AGAAATCATTCTGAGATCCAAACAATGGATTACCAACACACTTTCAGAA
CTTACA[A/G]TAGTGGTTGCCAGTTCCTGGGTTCTGATCCTTGCTGCTT
GCCATCTTGCAAGTCATTTATATTTTGTTCATATGTAAAATGGGGTGGTT
AGCCTATGTAACCCTATACGCTCTTAAAAAACAAAAAGAGGTATTTGTGC
CCCTTGGCCTTGACTGTTCTCACAGGGGCCACGAGAGCTTCTGAAGGACA
CGTTGGGGCTGTGAGGAAAGGCCGTTGGCTTTAGGGGAGGGTTGCCATTT
CTGCTGAGGAGGCTAGCTGTAGGGAAAATGAGGGCCTCTGAAAAGTGATT
TGGGGAGCCCTCATGGAGTAAAGGGTGCTGCTGACTCTTGCCGCTGCAGG
CTGGTGCTCTGTGGCTGAGTCAGATGGAGGTCAAAGACACCAACGTTGGA
CCAACCTTGAAAGGTGGCAAGATGGGGCTGCCTAGCAACACCCATGTCAT
TTCTGCCTGTGGTTTGCACGAGATCCACCC

RS297818

GACTCCCAACCCGTTGTGCTAGAATGGGACCTTGGGAAGGAAAGCTTTCT
CCGAGGGAATTGAATTAGCCGGAATATTTAAGATCCCATTTTCCCTCCC
ATTGGCTTGATTTACTGGTCTTGATGGGGAGTCCGAGGATGGTACTTAG
AGGCCCTGCAATGGAAATTCTAAACAATTGACCAGACTTTCGAATGTGT
[G/C]GTTATGTTTAGATGTCTTGGGTTGCTTTCCCCTGACTTTGAAAAG
GAGCAGACAAAACATGTTGATTGCGAACATCCTTCCAGAACATAAATCA
CTGGGGTGAGTGTGGGGTTGGAGTCTGTCATAGCTCACTGGGAGATGGGC
CCACTGCCTGTCTTTCATGGTCTCCCCTTGCCTCTGCCCTCTGCCCCA
TGGAC

RS297823

GACTGTAGGAAGGGGCTGACCCGTGCTTAGAGTGAAGGGCCCAGGAGGAT
GTGAGGGATTGTTGTTGCTTGACCTACGGTGTAGGAGAAATGCTTGAAG
AGATGGGGAGGAGCTCCACAGGAAATTCTCATGTTTGTGCCAGTCTTTG
TTGCCAGAAATCTCAACAGAACATGAAAGTTCAGATCCCCAGAGTGGACA
[A/G]GCTAGGAAATTCTCAGGTAGAGTTCGAAGAGAGATGTGTGTACCT
TCCTTCAGGAGGAGTAAGGGGAAACGGGGGCAAACCTGGGGCAAATTATGG
AGAAGTTCCTTGATTGCTGGCATAT

FIG. 10Q

266/299

RS297825

CTGCAGACACCGAGGTGTTGACGGTGGTTGGAACAGTCTTGCTTTGTCTG
AGTAGGAATGCAGCCTCCAAAAGCTGACTGTTGATAGGGAAGACTTCAGT
GTATTGTCCTTTTGTAAAGGAAAATATGTGGATGTGCTTGGCAAATTGGT
CCCTATCTGACTCGCAGACACAGGGTTGATTGGCTCAAACACTAGCTGCT
GACGCGAGGTTACCAAAAAGCTGCAACTTATTGTGCACACTGTCATTACTT
TAACCAGGTCTTGGTGAAGCTGGTAAGCCAAAGCTGACTGTCTTCAACTTT
GTCATCCTATCTGATTCTTAGAGCTG[A/G]TTTTTAGATGATTCCTTCT
GTTGATGTTCTGAGGAAAGCATTCTTTTTACCATGAGATGTAGTCCAAA
GATGGCTTGGTCTGAGATTGCTTTGAAGGTTAATTTGGAAAAGCCTCGAT
GAGCTTATAACATTCAAGAAGAAGCTTCTGCTGATCATGCTTATTTTCTT
TGATCCTTGTCTCAGTTTGCTACATATTTCAAACCTAAGTTTTAGAATTC
CTGAATGTCCACACCACCAAGGTAATAACTAACATTTATAGTGCATTTT
AAAAGTACCAAGCATTGTGCTAGCCTTTATATTCATTACAAATTTACATT
CATCACAAATTTAATTCCT

RS297835

TAAATTGCTACCCTCCTTCATTAAGGGGCAATTAATTTTGTGCCTTGGT
TAAAACGGCGGTAATTATAAGGTGAAGACAAAAAGCCCATGGTTAAACA
TAATCAGGCTGGATGTAAAAGGTGCTCCCTGGCAGATTAAGGAAGGTGGG
AGGGAAGGAGCATGCATCGTCCAGGCAGGCAACATTTTCCGTCTTGCTA
[C/T]TTCTTTTCTCAATTCGTAAGTCTGTTGCAGGGTAGGGCTTAGGA
CAAAGCCCGTCTTTTTCTGCCCAGGTTGCAGGACTTTGCGTCTTGCGGGT
CTTGGGTTTTGAGGTCTTGCCATTGGGCATTCTCCTGCCATAGAAGTCA
GCCCCAAGGCCTGGACTGAGCTCAGTGGCCAGGGCCTTGGGTGGTGGAC
ATGGC

RS297863

GCTCTTCATCTAGCAGGTAGGAGCCGGCACCTAGAGATTGGAGGCAACT
AGGATGCTGCTGTTGCTTACAACACCTCTGTGCGAGTTAGAAAAAGGTGA
TCCCCCCCCCACTCTGGGCTGACCTGCTCTGGGATCACAGGGCTTGGGA
TGAATCCTAAGTGAATGCCTCTTAAGCAGGCTCCCTAGTGCTTTGGTGGA
[A/G]GGAGAGGAGCATAGAGCTGAGTGGTCCCCAGTCTGTTGTCCCAGC
AGGGTCTCTGGCCACTGGCCATATGCCAGCAATCAAGGAACTTCTCCATA
ATTTGCCCCAATTTGCCCCCATTTCCCCTTGTTCCCTCCTGAAGGATGCAT
GCAGCTCAGACTTCAGCCATCAGCCATCAGAGCATCCCTGACAGTTTGAG
GCCTT

RS297868

ATTAGATGGTGGCGCTGATAACCCAAATTGCCTAACCCATTAACCTTTC
TGTGTACTAGGAGTGGGAAGAGGGGAAACCGCAGATTTGAAGCCACACTA
CCATATCCCACCTCCACCACATAGGTCCATAATTTGTTTTTCTAAGCCT
CAGTATTCAGTGCCTAAATGGATATAGCAACAGCCAGAGTTGTGGAGACA
GTCAAGGATAATGGTGTATTGTAAGTATCAGTCTATTCTCTGACTCATAT

FIG. 10R

267/299

TAAGGGCTCATCTGGCCCTTCTTCATTTTGTTCCTTCTTCCCATGACTAA
GACACAGACCCAAGCTTTCCATCATTGCC[A/G]TCATTGTTTCATTGTCT
ATGGTATTCCTCAGAGCTCTGCAGGAAGTGGGATCCACAGACCCACCTTC
TGCCTTTGAAGTATTTGCCATCTAAAATGAACATACATTTATGGAACACA
CAGTCAGGAGCCAAGAACAGCCAAACAGTTGTGAAAAGAGCAAAGGGTAT
TTTCATCATATGCATGTCAAAGGGAGTTGCATTTTAGAGGAAGATTTTTT
TTTTAA

RS297898

TTGCATGACCAGTGAGGACTAGTGATGTGTGGTAGTCCATCGTTGCCTTG
CAAGGAGGGAGGCGATGCTTCCATGGATTGTGGGTCTGAACTTACTTCAG
G[G/T]AAATTCCCTGAGGTGGGGTTTGAGATAGGTTTATTCACACGAGA
CTGTCAGTGGTCTCAGAAGGCAACGGTTTGGACCGAACACGGCAACCTCA
TCACCTTGCTGGTTGAAGCAGCTCCTGCCTTTTTCCCACTTCCTAGCGCT
GCCAGTCTAGGAACCTGGGTCTGGGGGTTTATGATTTTGTGGGAAAAGG
AAGAAATGTGTTGAATTTTGTCTTATTCTCTTCAGAGGTCCAGGGTAAAA
TGAGGAGAGGGGAGAGTTGGAGATACTTCTATTTATTCAGTGGGAGAATT
TGGAAGCCCAGGAGCTGGAGTTGCAGGTGAGGGTGGAGACTGTGATTCAT
GTATTGTAGATGTCAGGCAAGTGCTAATTAAATTATCGACAGTGAACCTG
AAATCATGCTGGCAGTGACTCAGTTTCATGGGGTGTACTGAATTGCCTAAG
GTACACCTTTCTGAATGAAGCGACACAGTCC

RS891958

ATCTACGGAAGGCATGTTTTTCATCCACAGGGTTCTCAGTGATAAACTGC
TTTTCTCTTGGGAGCGGTGCCTCGGAATTCAGGATAGCCAAAAAACTACA
AGCTATGGTTCCCAGAGCAGGATGGATGTGTCTATCTATCCAAGTGTGGG
GAAAGGTGTGCACTACTCAGAAAGTGATCTACTGAGGGCATGTTTTCATC
CAACAGGGTTCTCAGTGATAAACTGCTTTTCTCTTGGGAGCGGTGACTT
GGAATTCAGGATAGCCAAAAAACTATAAGCTATGGTTCCCAGAGCAGGAC
GGATGCGTCTGTCTATCCAAGTGTGGGGAAAGGTGTGGGTATGAGGTCCT
GAGAAGGGGCTCATTTCTCTAAGAGAGAACATATATCTTCAATTAGAGGG
ACTGCAGTTTTTTCGG[A/G]AGTGAGTAGACAGTAATTATTAATTATTCA
GATAACCATCACCACTGCCTTAGTCCAGCTCTCACTATTTCT

SLT_596643

TCGGTAGACACAGGAAGGCAGGTCTCTCTCTTTTTCTGTTCTGCAGCAGG
AGCTCAAGGCTGCAAGGATGAGTGATGGGAGCTTTGCAGCCCATCCCCTG
CAGGTGCAACCCTTGCCCCGAGGTAATTACCAGGATTAGTGAATCAACC
AGGCTCTCTTCTGTTTGCAGCCTCCTCAATGCCAACAAGATCAACTGCCT
GC[A/G]GGTGAACACGTTTCAGGACCTGCAGAACCTCAACTTGCTCTCC
CTGTATGACAACAAGCTGCAGACCATCAGCAAGGGGCTCTTCGCCCTCT
GCAGTCCATCCAGACACTGTGAGTACACTGCCTCGGGTGCCAGTGGGTGC
CCAAGCAGCAGGAGACCCCAAATGCCCATCATGAAAAACACCCAAATGAG
GGCAGCACGAGCA

FIG. 10S

268/299

SLT_317099

ACTCCAGAACCATATCCAGAAAGGTCTCTTCTAAACATCCCTCCCTGATT
TGGGTCGTGCTTATTAGCGAAAGAGAATGAGCTTGCTTCCTGAGTCTTCC
TATACTTTGCCCTGACCCACACTTCCATTTCAGACCTGGTCTCTGAAAAAT
TACTAGCCCCAATTATAATGAACAGTTTCCCATGAGAAGTAATTTAATT
TTGCAAATTGTTGTCCAAGTCATAAGGGTTGGAGGTGTCTGGAGACTTTG
GGAGC[A/G]GCAGTTGTTCTCTAATCCTGTGGCCCTGTGGGGATACTGT
GTACATCAGGGTAGGAATTTCTTCAAGCTGAACCAATGTCTCCTCTTTCT
GCCTTTTTCTTATTTTGTCTCTTTCTTGCATCACTGCTATTCTTCCTTA
AAGACAGGCAAGGGGTTGGTGGATTCCAGGCTGTTACCACCCCGCTTCTG
GAGGATGTGGTGCGTGTGACAGCTTGGGCAAGGCACAGAGCCCAGGCTGT
GTGTGTCACACTCCGTTCCCACCGACAAACACTGCTGCTCGCCTCCCTGT
CCAAATCTGATACCACGTATGTTCTCCCGATCCTGTGCTGTTGCTCTGGA
AACCAAGGAAGCAGCAGGATCTGGAGTAGGTTTCATGGCCGAGTCAACCTT
AAAAGTCTCCAGACGTTTCAGCAACTTCCGGCAGGAAAAATGTACCTGC
ACCCCTGCCAGTGAGAAGTTTTTACTGATAGCTCTCTCCCGTGAAAA
AGTTGCC

SLT_605050

ACCGTTGCTGGCAGCAGCCATCCTGGACCTGGTGCTGGCCTCTGATCCCA
ACCCAGCCAAGTCCATTCAAACATGGGAGCTTGGCTCCCTACCTGTCCCA
CACCCCTGGTCATCCAAATGTGACAAGTGTTCCTCCTGGGAAGTGGCTGT
AGGACAGGGATGTATAATAAAATTGTGTTGCTGTAATTTCCACCTCC[G/
T]ACCCCCACCCCCCGTCTATTAAAGCTTGTCTGTGATCACGTACCAAG
TGTCGTTGTTCTGAGCTGCCCCGCGAAAGGGGAGGAGGGCTCCAGGGGCAG
GAGCAGGCAAGATGCCAGATGACATCAGCTCTTCCAAGGCTGGTTTCAGC
CGAGGTTGAGTTTTATGGCCCTTCTTCAAATCCTCTGGGATCTCTTCTGT
CTGAACTCACCCCAAAGAGAAGAAGCAACAGCCTATTGCAGTCGGTCCCTC
TATTACTAAGTATTTCTGGCAGTGACAAATATGCACTGAGATTGAAATTG
ACTTTTAAAGCTCTGGAAAAGTTAAAAATACTTTGGGGTAGTTATGAGCA
TTAGGCATAACAAATGGCTCTGAGAAACCCTGAGTAGTTTCGGTAATGAA
ATATGAAGTGATGGAGATGGCATTTCGGGCTGGCTCTGACTGGGGAACGA
ACTTTTTCGGTTATGTACATACGCCGTTATTAACATTTCTGGCTCCCACT
CGTATAAAATATCACATTCCGACCCCTTGTTATTACAAACCAGGGCAAT
AACAAAAACAGCAGGGGGGAAAAATGCTGGAAAGAACACATTAGTCCATCG
AATCTAATTGCAAAATCATTTCATTAAAAATGGGTCAGCGGCTCCATTGCA
GAGGTCCACCAGTTATAATCTAACTATACTACTGAGAGCGATTCTTGCTA
ACTACAGGCTGCTCTCACTTGATGTAAAATGAAA

SLT_608499

CTCCAGGCTCCGAGGATTACCGCAGCAGGTTTCAGCAGCGAGTGCTTCAT
GGACCTCGTGTGCCCCGAGAAGTGTGCTGTGAGGGCACGATTGTGGACT
GCTCCAACCAGAAGCTGGTCCGCATCCCAAGCCACCTCCCTGAATATGTC
ACCGACCTGTAAAGTCCAACCTCGGCGTGAACCTCCCTACTCCTCCCCACAC
[A/G]CCAGTCACCCGGAGCCAGCGTGGGCAGGGTCTCCTGGCGGTGACC

FIG. 10T

269/299

CCTTCCTGGCTCAGTCATGTGGTGTGTTGGCTGTCTTTCACATACTGG
TCTGAAGGTAGATACCCAGGCATCTCCTGTGGACAGCTTGCTTGCAAATA
AAGACAGTTCATTCCTTCATTCTACACATATTTTCTGAACACCTACTGTG
AGCCGG

SLT_612136

ACTACTGTGAGTACTGGTTGAGTATCCCTTATCTGAAATGCATGGGATCA
GGAGTGTTCAGATTCCAGATTTTTTTGGATTTTGGAATGTTTACATGTA
CACAATGAGATGTCATGAGGCTGGGATGCAAGTCTAAACACGAAATTAC
TTGTGTTTCATGTACACCATATACACAGCCTGAAGGTAGCTATGTGATAT
TTTTAATAATTTTATGCATGAAACAAAGTTCAAGTACATTGAACCTTCAG
AAAGCAAAGGTGTCAGGTGTGGAATTTTCTACTTGTGGCATCATATCAGC
ACTCAGAAAGTTTCGGACATTCTGGTTAGGG[A/G]TGCTTACTTATAAT
GAGAGTGGACTGTACCACCTCGTTTTTTTCTCATTACCCATGCTCCACC
CATCAGTTCCTGTAGACAAATATGACAGAGGCCTTCTAGGCCCTGGGCA
GCATCTGGATCTCACTGGTGCTACTCAGATCGCTTTCCTCCCTCCGTCCC
TGCTGCAGCCACCACCTTGGTCATGGCTCCAGCGAATGCTGTGTAACCG
GGTGCAGTGGAGAGCACGTTGGGGGGC

SLT_616823

CTCCTCTTAAATCAGTGCTAGTGAGATCTCTAATAAGACAGAAAATAGTT
TGAGAGTCACTTTTTAACTCTGTCACTCCCCAGAGCATTGAAAAGACAA
TTACACAGAAAAAACTTCAAATCCCATCCAGCCTGTTTTTaaattgat
acataacaattatacatatttatgggacacgtgataatttgatacatgca
tgcaatgtacagtgatcaaacaggatatttaggatatccgtcacttctaa
catctatcatttcttgtgtggaggtatttcaaatctttcttctagct
atttgaatacatattgttgaactatagtcaccctactgtgactgtc
accctatctaactagaacttattccttttagctccccattaaccaac
ctctctcatctccctcaaaccctccagcctctgtaaccatccttcta
ctgtctccctccatgagatcaacttttttagctcccacatatgagtagga
gcgtatgatattgcoftgctgtgcctggctcatttcaacttaacacagtg
acctccagtgccattcatgttgctgcaaatgacaggttttcattctttt
atggccaaatagcttccattgtgtatatatacaccacatttcttgatc
cattcatccactgaCCATACAGTCTGTTTCACAAAGGTAGCTTCACCTGT
ATAGGGCCAGGGTCCCTGCTCCCTGGGCCAGATGCTGAAGACCAA[A/G]
GTTCAAGGAGCCCCAGACTGAGCTCCTTCCACCATCCAGTCCTCAGTCTC
AGGGGCCCCAGAGAGTCCCCAGCAG

SLT_617406

GGAGTCAGAGTCATCAGACATTCTGGAGCCTTGGATGGGAAAGAATTTAG
CATGCTGAACACCTCCAGCATGCACACTCACACACACACACCACACACAC
ACCCAACATAGTCACCCACTCTCGTGTATACACGTATATAGATTTATACC
AG[A/G]AACTTGCTGAAGGAGGCACACAAACAGACATTTACCCACAAAC
ATAAGCATAAGGACCTTTATAAAAATGATATATGCAGACACGTGCAACAT

FIG. 10U

270/299

GCACATAAACATATATACAAACAGGCACAGACACACAAGCACACACATAC
ATACAAGCTGATGTCTACAACCACGTCTTGATTCTCTCTCTCTCTCCAG
AAATATGTGTGCACACCCTAGCAGCCACACAATATGCGTGTGTATACACA
CATATGCATGACATGTGCTTCCAAGAAAGCATGCACAAACAATAATGTAC
ATACACATTTACACACAGCCCCAGTGGGGCTCCAGTCCCTGCTATCACAG
GACAAACCTGATCAACATGGCTGGACTGAGCTTAGAATTGGCAAAAGCAT
CTCACCTATACACACACACACCACCGTGGCACCATTGTTGGGACAGAAAA
GATCATGCCTGTGCTCTCTCATCCCCACCCCTCTACCTGTAAGATGCTGA
GGATGTAACCTGATCGG

SLT_169267

CTCTCACTTTCTGCTATCCAACTGAATCTCATTCTTTTTTGTGTTTGAGAT
GGCGTTTCACTCTTGTTGGCCCATGCTGGAGTGCAAAGACGCGATCTTGGC
TCACTGCAACCCTCGCCTCCGGGTTCAAGCGATTATCCTGCCTCAACCTC
CCCAAGTAGCTGGGATTATAGGCATGTGCCACCACACCCAGCTAATTTTG
TATTTTATAGTAGAGACGGGGTTTCATCATGTTAGTCAGCCTGGTCTCGAA
CTCCCGACCTCAAGGTATCCACCCCTCTGCGCCTTTCAAAGTGCTGGGAT
TACAGGCTGAATCTCGTTCTTTAAAATTCATTGCTCATCTCTCCACCTCT
AGGAAGCCCTCCCTGACTATGCTGGTCTTATTTATTAGAAAGACTTCTTC
TAGCTCTAGCTTCCCCAGCAAATATTATTGAGCATCAGCCATACTCCAA
CTCCGAGAC[C/T]GGTGCTTTAACTGCCTTCCCCACCATGCTATGAGCT
ACTTGTGAGCGGGGAATTGTATTTTTATTATTTATTAGCAGGGTTTAGTA
CAGCGCTAAAATATTTTTTAATGGAAAAAATGCATGAATGGGAAGTTGTG
CTGTAAGAGCAGATGTCAATTTTATGGAATTCATTACCTCAGAGGTATTT
GAGGCGGAGGATGTGAACATCAGCTTCCCAAATGTCTAGATGTGCGTTTC
CCAAAGCGATTCATTTTAATGGGTGTTTCAGCAACAAAA

SLT_575368

AGGAAAGATCATCCTTTCCCTCTTTCTCCAAGGAGAGTTAGACCCCTTGA
CAGGTGCTCCATGTACTAGGACCTGAGTTCTCTGACTGCTGCAGTGTGTT
GTCTGGTCTGCCACAACCAGACCGTGCACCTGTGACAAAAAAGACCTCCC
TGTCCTTAAGGCCAGAGAACACAGTAGCCCTCAGTGACCACTTGTTGACA
[C/G]GTGGATGGTTAATTCATCTTCTCTGCTCTGTTTCCCAGACGCCT
AGAACAGAACTCCATCAAAGCCATCCCTGCAGGAGCCTTCACCCAGTACA
AGAAACTGAAGCGAATGTGAGTTTCCCTGTGGAGAAATGGGCCCAAATG
TTTTCAATTTCCAGGGTTGTTTGCAATGTGTAGTGGGCAACCTGTCCAGG
TGACGG

SLT_579519

TTCCACAATGAAAGCATATATCAAAACATTGTGTTGCACACCAAATATGT
ATACATTTTTTAAAGACTAGTTGAGTACAGTAGTGAAAAAGGAGGAAAGA
GTAGAACAAGGAGTTTGATCTGTAAGTACTGACTGTGAACAATCCATTGAGAG
AACTCACTACCTTTGAACCAGCCTAAATATGCAGTTTTTATAATAATAAA
[A/G]AAAAAGACAAAGTGACCAAGGTCAATCCCAGCTAAACTGTCTAT

FIG. 10V

271/299

CACTTCTCCAATTCCCCTCTCCAGCACCTCCAAACCGTGGGGCATCTCA
CCTCATACTGTAGGGAGAGATGGGTCCAGAAGTCTAGTTGTGGACTGAAA
ACCAGTTTGGCCCTCCCAGAGCTAAAGCAGAGGGTTTCCGTGCTGGCCACA
TAGCTT

SLT_580014

ACAGATCCTTCGTGTTTGTCTGGAATGCTTTGCATAGGCAGCCATGCTGA
GGGCAAGTGAGATTAGGATAATCCAGAGTATTGCTTGTTAAGACCCTTA
AACAAAACCGGAGCGCGGAAGAAAAGCCCGGTGTAAGCTGACGAGTTTGT
GAGTGCAATCTGCGGATTTGTGCGAGGTGATTTCCGCCAGCTAAAGGGATA
[A/G]ACTAGACAGCTGTGCCGAAGAGCCTTAACCTGTGAAATATCGTTC
AAAGTACAGGCTTTGGAGGCAGGGAGGGGAGGAAGTAGAGGCCTCAGCAA
AGGTTGTGGCATGGTTCTTTTGAATCTATTAGAAGAAGGAAGGAAACAG
GCTCAGAGAGATTCCCCTGCATGTGCTTAAGAGGCTGGAGTGTCTGGCT
TCGCTG

SLT_581033

TCCTGCTCAAAAGCTCCTTTTCAGGTCAGGGAGGAAAAGTCACTGGGGAG
GTGAAATGACTCTGGACTTTCTGGGAGAAAAATGAGCAGCTGCTGAGGCA
TGAGGCAAGAAGATGATGCCTACAGGAACCCTGGCTTGTGGTTGGTTGGG
TGAAGCCGGTTCCTGTTTCATCTGTGTGCTTAATTGCTTGGTAATGAAAC
[A/G]TAAGGCCCTAATTTGACTGGGCTCAATTTCCACCTACAAAGTGA
TGGTTCACGTGTTACAGCCTCGTGTCCCGATGAAGATGCCACGGGTGAG
TATCTTTGAAAACCAAGAAGAGTGATGTAAATGTGGTGCACTTTATCAT
GAGGTAGTTGAACTGAAGGCTCTTTAAGCTCCTTCTCTTGCACTATGAGT
AAATGA

SLT_610234

CATCTTGCTTCCTACACAGGCGACTGAATGACAATGAGGTATCTGTTCTG
GAGGCCACTGGCATCTTCAAGAAGTTGCCCAACCTGCGGAAAATGTAAGT
CAACTTCAGGAACCTGGCAGCAGCCTCTGTTCTCTAGCCAGAGCCTGTGT
TCTAGACTAGAGGAACCAGGGGACCGGCCTCTCCCCAGCCTCTGCTCCA
[C/T]TCCCTCCCAGCCTTCTCCTCAGCCCCGCTGTGGCCTCTGTTAGGA
AGCAAGACATGTAGACACAGACCAAAGTGATGCTTCATGGTTTCAGTTGA
GTGTTATACAGAGCGAGCATTCCACACCATCCCTGACCCCTCCCTGGACC
CTCTGCTCACCCACCCCTACACGCCATCCAACACCTACCCAGGGCTGG
TGGGTG

SLT_610323

AAAATGTAAAGTCAACTTCAGGAACCTTGGCAGCAGCCTCTGTTCTCTAGCC
AGAGCCTGTGTTCTAGACTAGAGGAACCAGGGGACCGGCCTCTCCCCAG
CCTCTGCTCCACTCCCTCCCAGCCTTCTCCTCAGCCCCGCTGTGGCCTCT
GTTAGGAAGCAAGACATGTAGACACAGACCAAAGTGATGCTTCATGCTTT

FIG. 10W

272/299

[C/T]AGTTGAGTGTTATACAGAGCGAGCATTCCACACCATCCCTGACCC
CTCCCTGGACCCTCTGCTCACCCACCCCTACACGCCATCCAACACCTAC
CCCAGGGCTGGTGGGTGGGACTCAGGTAAGGACTAGCAATGGGGCACGGG
TATCTAAGGTATATGCTATTTGGCAATTTTGTGTGGTGACAGTTAAATG
TCTGTT

SLT_610466

GTGGCCTCTGTTAGGAAGCAAGACATGTAGACACAGACCAAAGTGATGCT
TCATGGTTTCAGTTGAGTGTTATACAGAGCGAGCATTCCACACCATCCCT
GACCCCTCCCTGGACCCTCTGCTCACCCACCCCTACACGCCATCCAACA
CCTACCCAGGGCTGGTGGGTGGGACTCAGGTAAGGACTAGCAATGGGGC
AC[A/G]GGTATCTAAGGTATATGCTATTTGGCAATTTTGTGTGGTGAC
AGTTAAATGTCTGTTTTCAAATGGAATCAAAAGACCCCTGCATCAGTGAT
ACACATCAGAATGAACATGCCAGCAGCTTCCCACAGTGGGTTTCCTCCAG
GAGTCCGTGGGTCTGACCATGCCTTGGCCTAGGCAAGGGCCCACTTGCCT
ATGTTGGCTT

SLT_641364

TGAGCTTCTTTAAGAATAACATTTTCAATTCTTTACCTGGCATTTC AAGG
AATTCTTTTGGATTGGGATCTGTTGCTGGACAATTGTGGTCCTTTGGTAG
CATCATATTTCCCTGCTGTTTCATGTTTCCTGTGTCATTACTTGGATTTC
TGAACATCTGGTGTAGCAGTCACTTGTTCTAATTGTTTGAAATTGCTTTT
GTAGGGGAGAATTTTCTC[C/T]GAGGATATATATATATATATATATA
TGTTGTTGATTAAAGATACTTTGGGTTTGATTTTGAGTGCCTGTGGTAGTG
TGATCTTTGTATGAATTCCTCGGCAGGGCATAGGATCAGTGGTCTCTATA
ATCACATCCTCAGTGACTTAGGGTACCATTATTAG

SLT_645645

TGTCTGCTTAGGACCAGAAGCCAGTCTGCAAAGGGAAAGTGGGAGATCTT
GCAGAATGAAAGAGCATTACCCTTGGGAAAGTAGGAGACCTTCTCTGAAA
AGCTGAAAGAACACCATCTCTCTGTGGGATGGATTCCCTATAAACTCCTGA
AACCAGCCTCTAGATAAGGATTTCTCAACTTCGGA ACTATGGACATTGGG
GTTAATTATTCGTTGTTGGGAGGCTGTCATAGACATTATAGGATGTTTAA
CAACATCTGTGGCCTCTACCCACTAGATGCCAGTAATACTTACCCCACTA
TTGACAACCAGAAATGTCTTCAGACCTTGCCAAATGTCACTGAGGGAGCA
CAAGTGCCCCCAGTTAAGAATCACTGCTCTAAAGCAATGGTCCTCAC[C/
T]ATCAGCTGATTAGAGGAATCACCTGAGCAGATTTTTTTCAAGCTACTG
ATGCTCAAGCCCATGCTAGACCAATTAATCAGAATACCTGGGCATGGAA
CTCAGGCATCAGAGGATTTAAAGCTCCCCAGGTGATTCTAATGTGCAGC
TAACATTGCCACAGCTCTGGATGTTTATCCCCGCAGGGAAGCTCGAGGTT
GCAGCTGGCAGAGGACTGCACCCCACTA

FIG. 10X

273/299

SLT_661505

GAGCCAGCTGCCATCTGGGCATGGAGTTGGGAAGGGGCTGGCGCTGGCTG
AGGGAGGGCCCAGAGCAGAGGGGAAGGGAGGTATGGCAGTGAGCGCACTC
AGGACCTGCCATCAGTACTCTGGTTTTGCTGCCCAGGGCCAGTGGACATC
AACATTGTGGCCAAATGCAATGCCTGCCTCTCCAGCCCGTGCAAGAATAA
[C/T]GGGACATGCACCCAGGACCCTGTGGAGCTGTACCGCTGTGCCTGC
CCCTACAGCTACAAGGTATGCTGGAGGCCCTGCCCCCGTGTCATGCC
TCAGGCTCCTCCTTCAGCCCTGGCCCTAGAGAGGGGCACCATGCCCTGCG
TACCCTCCCTTCTCCAAGGGACAGCCTGGATGAGTCCATCGCACAGGTCA
CCACTC

SLT_537097

GAGCTCACCAGCATGATGGAGTGGACACACAGAGAGAGCTTAGTGATGTG
GAGTCCAGGACGCCCCGAACCTAAGCAAGGACACCCCAGAGGCAATCACGA
ATCCCTCATGTCTCACCTTCTGAGGAGCTCTTCTCAAGGGTTAACTAGT
CTCCAAATTGCCTTTGATGTTACAGCAGTTGTAATTGGTTTTATGCCTAT
- GAGGGTGAAAAACAAGAGGTGACCCTAGCTCCACGTCTTCATCACAAGAG
CCGCCCCACCTGCCCTGGTTCTTGTTCGCCAGGCCCTGGATCAACTGGT
GTACTGAGGCCACCAAGCCACGTTTAGAGAGGAGAG[A/G]TTGAAGAG
TTAAAGCAATAGCAGAACTAACCAGATTTTTAGGGTAGTTCTAATTCAGT
CATATCCTGGTGGGTTCAACGTGGCCTGATGCGGAACCCACAGGTAGAC
GCAGAAGAGTGAATGGGGAAAAGGTCATTTTCTGGTACAAGAGGAAGGCA
GTGGAAAAAATCGACAGCAGTCCTGAAACCTAGGTCAGGGTGTGCTCAC
TCTCCTAGAGCGGGGTTGGTGTCTGGTACAGGGTGTTAGGATATTCAAG
CAGGATGTTGCCCACTTCAGAGAACCCAGAGTTTAATGCAAGTCGAGTG
TGT

SLT_600093

CTGCTTGGATGACCTCCTTCCCTGGTCTCATGCTCCCACCCCTACCCGCT
CCCTGAACACTGTCCTCAGGTTCCCTTCTGGGCCTGGCAACATCTCTGGA
AAGAAAATCTCACCCAAAGCACAATCGTCCTATCCCCAGCACCTTTCTC
ATGACTCACGCCAACCTTGGCCTCTATTCCTACCCCTGTCTGGCCAGGGC
TGAGTTAATTAGCTCTGCCAAACAGTGGTACCCAAAAAGAAGGACAGTGA
GAGCCAGAGGAGGGCAGGGTATTATCTGCCAACCTTGACCCTTTGGTCTC
ATAAGTATCCTGTTAGTACTTTGGACCCCAAATGGATGTGGCGGCCCTGC
GTGGCACAGCAGGGAAAGAGTGCAGGATCCAAGGACTGGTATCTCCCCAG
GAACACAGTCTTGGCAATTTTCTGGGCATGACTGTAGGTTAGCGGGGTGG
CAAG[A/G]TGGGGGCGGGGCTATAGAAAGAACTAAGTAGGAGAAAAGGA
AAATGGAAAGTGGACCTAGGAAGCAGTAGAGCTTAGTTCTAACTCTAGCT
CTGCCACTATCGTCCTACCTGTAGATCTGCAGGATCCTGGCTGC

SLT_652015

atcacgccactgcactccagccttggccacagagcgagattcggctctcaa
aaaaaaaaaagaaagacagaTTCAGAGAGGTTTAGTGACTTGTTCAAGAT
CATTGTCTTATTCATCCtttctgaatacctgctaccggtagttgctgt

FIG. 10Y

274/299

gcctaacctcggaggggaaagaaagcaaacagtgaatgagacacaattg
[C/T]tgccctcaggagctcttggtctagaaggggaaataagtaataa
gcaactacaacacaaggcgatacctgaaagaagagccatggggatacaag
tgagaggcacctaaccagctcttagccacccaaaaggcttctgaaagga
aggtTAATAATCAGCACTGACATTCATCAAACCGTGACTATGTGCTGCAC
AAAGG

SLT_669387

CCAGGTGCTTCTCCCTCTTTTGCTCCTCAGGGCAAGGACTGCACTGTGCC
CATCAACACCTGCATCCAGAACCCCTGTCAGCATGGAGGCACCTGCCACC
TGAGTGACAGCCACAAGGATGGGTTCAGGTAACAGTTCACCCCTGGCCTC
CCTCACtgtattagttgctctcacactgctaataaagacatacccaaga
Ctgggtaattataaaggaaagaagtttaaggactcacagttcagcatg
Gctgggaagcctcacatcatggcagaaggcaaggaagaaagcaaacatct
Taaatggcgggaggcaaaagagagcttgcagggaactcccattata
Aaaccgtcagctctggtgagatttactaccatgagaacagtatggg
Agaactgccccgtgattcaattatctccactggccccaccctgaca
Cttggggattattataattcaaggtgagatttggtagggaccagccaa
AccatatcaCTCACCTTGGAGGGCTCCCTGGGCAGGCTAAAGAAGCAGAG
ATA[C/T]GACCAGCGAGGGCGTGCCAGTGCCCGTGCTGTGCTGGCCCT
GTATGAGAATGATCTCAAGGCTCTTCGCACCCTGTAAGGGAAGTACAATT
TATCCCCACTGTGCAGATAAGGAAGTTCAAGCATCAGAGGGACAAATCCT
CTGCCTAGAGTTACATTAAGCATTGGCACAGGGATTGAAACCAGGTCCC
AACCTCGTGCTTCCTCCAAGGGAGGTGTCTGCTGCTGGCTAAAGTCAGAG
AAGGATTGGGTGAAGGCTTAAAGACTGCCCGTCTGGCACTTCCACCATGC
TTTTCTGAGTTATAAAATAAGTGGCATTATTATATGCTCACTATGCCAG
GTACCAACTAGTCAAGTATTTTCTCATTTAAATCCCTACAGACCCTATCC
AGTAGGTAGGTATTATCTTCATTGAACAGATGGGGAAGCTGAGACACAGA
AATGGACTTGCTCTAGGTCTGATCTCCTGATGCTCATTCTGGATCTTCC
AGGCCACCTCCAGCCCTCTTTCCTTCTGACATTAACATTTCAAGAAGA
AAAGGGAATAGAAGTCACTTAG

SLT_676522

TAGGTATTTGTAGCACTGCAGACTTCAAAGGCAATGTGTCTAGAGACCA
GAACTTCAAATTCCTTTTCACTTCCTTCCCTGAAAAATCCAAGGGGCTT
ACTTTTCTGTAACAGGTGAACTGGGCTGCTAAGCCTTGCTGTGTCTCTG
AAGCCTCCTCTGACCTCCTGGGGAGGTTATGGGTCCCCCTTGTGCTTCC
ACAAAGTTTGCCCTTCTGGTCACACCTACAAGTCTGTATTGTAATTGCCT
GCTTATTTGTAGATCTTCCCAAATAGGCTGTGGGTAGGAAAGGACCCAGt
Cactgttgtgtccccagtgccctggcacagctgccacacaggaggtgc
TcagtaataagtgatgaatgaaAAAACAAATGAATAAGCATGGCCCCAA
GT[C/G]AGGGCCAGGCATCCTGTGCTCTCAGCTGCACCTGCCCTGCCC
CTGAAAGATCAAGTAAACAGCCAAATGGTGATGCTAGGACAGTGTCCAG
GAGGACACCTGGAATCTTCCCGTGGTCACTGCCAAAGAAACCAAGGCAGA
GGTGACAGGAGATACACAAGGAGTGAGAACACAGGACTCCTGACGTCCAT

FIG. 10Z

275/299

GCC

SLT_666913

GCCACCACCACTCTCATATATGCACCTCTGGAACACTTGGCACCAACCA
AAGACCTGAAAAAGTATTTTAGTCACTCACATTCAGCCCTGCCTCAGACC
CCAAGcatcatcatcatcatcatcatcatcatcatcatcatcatcGCTAT
TATTTATGGAGCTGCCATTACATGCTAGGTGTCTTACATA[G/T]ATAAC
CATTAACATAATTCCCCATAGGGTAGTTCATATTATTCCATTTTCATAAGT
GGTAAAAACAAGGCTCAGAGAGAAGTAGTCATTTCCCTCAAGGAACACAGC
AGCCAACCTAGAATGTGCACTCCCATCTGTGTGCCCCTAGAACGCATGTT
TTGAGAGGGGCTAGCCAAGTGGTCCTgcatagaggctcccagcactaact
Ttgggtggtatgcctgggttcagctgcttgcctccattcactactgc
Tgtgcatcttggccatattacctcactttctaagtctgtcttctctgc
Tgtaaaaatagtgaataacaatcacaccaatctcatagggtgtgtga
Acatgatatgcatcatgaatataaaacacttagcatgaggcctggaacg
gaaaatgtgctc

SLT_617325

GGAGTCAGAGTCATCAGACATTCTGGAGCCTTGGATGGGAAAGAATTAG
CATGCTGAACACCTCCAGcat[A/G]cacactcacacacacaccacac
AcacacCCAACATAGTCACCCACTCTCGTGTATACACGTATATAGATTTA
TACCAGAACTTGCTGAAGGAGGCACACAAACAGACATTTACCCACAAAC
ATAAGCATAAGGACCTTTATAAAAATGatatatgcagacacgtgcaacat
Gcacataaacatatatacaaacaggcacagacacacaagcacacacatac
AtacaAGCTGATGTCTACAACCACGTCTTGATTCTCTCTTCTTCCCAG
AAATATGTGTGCACACCCTAGCAGCCACACAATATGCGTGTGTATACACA
CATATGCATGACATGTGCTTCCAAGAAAGCATGCACAAACAATAATGTAC
ATACACATTTACACACAGCCCCAGTGGGGCTCCAGTCCCTGCTATCACAG
GACAAACCTGATCAACATGGCTGGACTGAGCTTAGAATTGGCAAAAGCAT
CTCACCTATACACACACACACCACCGTGGCACCATTGTTGGGACAGAAAA
GATCATGCCTGTGCTCTCTCATCCCCACCCCTCTACCTGTAAGATGCTGA
GGATGTAACCTTGATCGG

SLT_585307

AGGAGAGTCAGCGAGCGGGCAGAGGAAGACCGAGGTCAGTGTGCATAAAC
CCAAATGATA[C/T]AGCCGAGGGCCCTGGCCCAGGCATGAAGATACTAA
GCACAGGGTCTGGGGATAGAGATTA

SLT_16652

tcttcttggttgatccgttgctggtgagctagtgtgatttctggggg
tgtaaagaacctgtttgtcatatcaccagagttggtttctggttc
ttctattagggtagggtctgtcagaggaaggtctagggttaaggctg
ttgttcagattcttgtccacagagtggtcccttgatgtagtactccc

FIG. 10A2

276/299

cctcttttcctaggg[A/G]tgtggcttcc¹gagagctgagctgtagttc
agctgattgta²tctcttctctgatctagccaccagcaattctaccag
gctcgggctgg³tactgggggtgtctgcacagagtccgtgatgtcagcc
atctggatctctcagccgtggataccagcacctgttctgg⁴ggcaatggc
agggaagt⁵gaaatggactctctgGAGGGCCTTAGCTTTGGTTTTTTAATG
CACTAT⁶ttttgtactgattggcctcctgctgggaggcactttcaagagag
cctcagctatggtagtatgg

>SLT_96349

AAGGGACACTGACGATCATGGGAAGGGCTGAGTGACCATGCCTGCATGGC
ATGAAGCCTAGTATGAGGGTCCCTGAGCCCAGCTTTGTCCTTAGTCATTG
CTGTCTCTGTGGTTGTAGGCATCTGGAAGACAACCAGGTCAGCGTCATCG
AGAGAGGGCGCCTTCCAGGACCTGAAGCAGCTAGAGCGACTGTAAGTACAG
[A/T]ACAGCCTCCTTTCTTAAAGTATTTATTTACATTTAGTGTTTTTTG
TTTTGTTTTGTTTTGTTTTGTAAATTGGCCTTATAACCTTGTTAAAAAA
GGTCTCCAGTGTTTTAAATAGAATGTTTGCTATTATACTTAAGGCACATTA
GATGCATGTTAAAGAAACACTGAGATCCACTTACACTCCTTTTCTGTAAA
AGTTGC

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GAACCTAGTTCCAGTGATAGGGAAAGTGGAAGGCTATGAACAAATAAATC
ACCATGCCCAGCTTCTAGGATGACAGCGATGTCAGGTTGACTAACCATGC
TTCCTTTTCATAGAGATGATAATTTCTTCTCCAGCCTGTGCATTAAAAGA
GCAATCAGGACAAAAGTTATCTGTCTTGTAGCTTAATGGAGAGGAGGGGA
GGAGAGCATCAGAAAGGGTCAGGGCCCTTGCTGAACACCCACAGCTGTGC
AGACAGGTAGCAAAATTTGAAATGGGCATTGATGGACTAGAGGAGCAAGG
AATATTAGGTTTCATTGCTGAATATTGAACACTTTCATCAATCCTTAAGT
CTGTGAGTGATAAGAAACTTCCCAAGTGCTTGTCTGTC[A/G]AAAAGTC
TAAGACATTCAGAGGTACAGGAAAAAGCAATTTAGATTTTATTTTCCATC
TTTACTTGGTAGTTAATTTTGACCCATAAGTGTGGCTCCATGCAAGAAGT
ACAGACTGGGCCAATTGGCCACTGCCTTGGTATTTGTATGCCATGGAATC
TTAGCTGGCAAATTGTTACTAGAAGTGACAGCTAA

>SLT_89801

AAGAGGGGTCAGCCCCATTTGTATGACATGATCTGAGAGTTGGGGGAGGG
GAACTTCAACAGAAAAATTTGTTACCTAAAGAAGGGACCACAGAAGGCA
GGCAGTTACATATAAAAGAGTTCTGCTATGTGCATAATGAATGGTTTATT
CCATACAATATCCTTAAGGTTAGCCGGGCACGCTCAAGGGATATCGTTAA
TCATCAGAATTGCCGCCTTCTGGACAAGCAACATCCCTTCAGTCCAAGCC
AGTCTGGATTAAATAGACCGTAATTGTAACCCACAAAAATCTGACCTGAA
TTTGCTCTCCATTGCAGTGACCTGGACAGAAATAATATCACCAGGATCAC
CAAGATGGACTTCGCTGGGCTCAAGAACCTCCGAGTCTTGTAAGTAGTTG
ATGGCTCTCAAGTGTGTTTTCATTTTGTAGCTCTTCAGCCTCACAAAAAAA
TGTTCCACTGCCCTGACATCACACTCCCAAGCCCTGGACAACAGGAATT

FIG. 10B2

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CACCATTCTGCAGCAGAAAGCCCCCTCGTTAGC[A/G]TACCCACATGCTT
ACAGGTATCACATTCTGTGTCTAGATGCTGCTGGCTGAGCTAGATCGATG
GAAGAACTTAGTTCCAGTGATAGGGAAAGTGGAAGGCTATGAACAAATAA
ATCACCATGCCAGCTTCTAGGATGACAGCGATGTCA

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GACCTCCAGCAAGTCGCTTCACTTCTCTGAGCTGTTTTCAGACGACCCCT
TGGAAGATCGTGGACTTAAGTAAAGAATATGAGTAGAGTGCTCAGCTCAG
TGCAAAAATTAAAAAAAAAAAAAGTGTGAGGAGCCTTATCCGTCCTTGGAT
CTTAACAGTGAATGAGTTTCAGTGTTT[C/T]TTTCCAGGGGCCCCGCTG
GCCGAGCCCCCTTCCCTCCCTGGTTCCTTCTCTCCCTCCTCTACTGCC
TCCTCCCTCCAGGCTCTCGGTCGCTCCAGCAAAGTTCCCACTTAGTCTGA
CATGACGC

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TTAGTCTGGCTGGTTGGAAACAGAAAACCTCCGCTGACTGTGGTGGCCAC
ATGAAGGGTAGTATCTCACACAGGGAAATATACACAGGTTGACGAGAAAG
TTTGAGATGGGGTTTCTTGCAGGAATGGGTGAGTAGTTTGCTTTTGAGAA
ACACAGGTTGAGGAGAAAGTTTGAGATGGGGTTTCTGCAGGAATGGGCG
AGTAGTTTGCTTTTGAAAAGCCTATGGAAAAGTAAAGGGGAAAATTCAAA
AGTGTCCAGGGACTTTTACGCAACTCTAAAAATGACACCACAGAGTGTA
AGCCACCTCTGGCCCTTGGACATAGAAAGTTCTAAACAATAGCCTGACCT
CCTAGTGATTTACCCAGTCTTCTCCAAGGAGGGTAATTGCTCCATGGGGT
GGCTACCGCCTTCTGCAGATGCCCCAGAATCAGCTGAGGAAGTGGACAGA
GCCACAT[C/G]TTCAGCATTGGAAGCCCGGAGTCCTGGCTCTGGTTATT
TCACTAATAGCTAGGTGACCCTACATAAATGCCCGCCTTTCTCTGAAACT
CAGCTTCCTTGTTNNCNGTAAAATACAAGAGTTGAACTATATTTGGGTTT
TCAAAGTATG

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TTAGTCTGGCTGGTTGGAAACAGAAAACCTCCGCTGACTGTGGTGGCCAC
ATGAAGGGTAGTATCTCACACAGGGAAATATACACAGGTTGACGAGAAAG
TTTGAGATGGGGTTTCTTGCAGGAATGGGTGAGTAGTTTGCTTTTGAGAA
ACACAGGTTGAGGAGAAAGTTTGAGATGGGGTTTCTGCAGGAATGGGCG
AGTAGTTTGCTTTTGAAAAGCCTATGGAAAAGTAAAGGGGAAAATTCAAA
AGTGTCCAGGGACTTTTACGCAACTCTAAAAATGACACCACAGAGTGTA
AGCCACCTCTGGCCCTTGGACATAGAAAGTTCTAAACAATAGCCTGACCT
CCTAGTGATTTACCCAGTCTTCTCCAAGGAGGGTAATT[C/G]CTCCATG
GGGTGGCTACCGCCTTCTGCAGATGCCCCAGAATCAGCTGAGGAAGTGGGA
CAGAGCCACATGTTTACGATTGGAAGCCCGGAGTCCTGGCTCTGGTTATT
TCACTAATAGCTAGGTGACCCTACATAAATGCCCGCCTTTCTCTGAAACT
CAGCTTCCTTGTTNNCNGTAAAATACAAGAGTTGAACTATATTTGGGTTT
TCAAAGTATG

FIG. 10C2

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>SLT_8778

TTAGTCTGGCTGGTTGGAAACAGAAAACCTCCGCTGACTGTGGTGGCCAC
ATGAAGGGTAGTATCTCACACAGGGGAAATATACACAGGTTGACGAGAAAG
TTTGAGATGGGGTTTCTTGCAGGAATGGGTGAGTAGTTTGCTTTTGAGAA
ACACAGGTTGAGGAGAAAGTTTGAGATGGGGTTTCTTGCAGGAATGGGCG
AGTAGTTTGCTTTTGAAAAGCCTATGGAAAAGTAAAGGGGAAAATTCAAA
AGTGTCCAGGGACTTTTA[C/T]GCAACTCTAAAAATGACACCACAGAGT
GTAAAGCCACCTCTGGCCCTTGGACATAGAAAGTTCTAAACAATAGCCTG
ACCTCCTAGTGATTTACCCAGTCTTCTCCAAGGAGGGTAATTGCTCCATG
GGGTGGCTACCGCCTTCTGCAGATGCCCCAGAATCAGCTGAGGAAGTGA
CAGAGCCACATGTTGAGCATTGGAAGCCCGGAGTCCTGGCTCTGGTTATT
TCACTAATAGCTAGGTGACCCTACATAAATGCCCGCCTTTCTCTGAACT
CAGCTTCCTTGTTNNCNGTAAAATACAAGAGTTGAACTATATTTGGGTTC
TCAAAGTATG

>SLT_278

AACTATATGTCCTTGTTTTATTTTATTTTATTTTTTTTGGGGGGTGGTTT
CCATAGGGTTTACCACATATGTCTTTAACTAACCATAGTCTACTTTCAAA
TAATATCATACCATTTTACCTACAGCATAAGAACCCTTACAACAGTATACA
GTATACTTCCATTACTGTTCTCCCATTTCTTTGTGCTGTTCTTTTCATATA
CTT[G/T]AACACCTATTATAACCCCTTGGTACATTATTACTTTACTTT
AAACAGTTATCTTTTTTAAACACCTTTATTGTGAGGTACAATTTACATGTA
ACACAAGTCACTCATTTTAAAGATGAGTTTGATGAGTTTTGGGAAATTTTT
ATAGTTGTGTGACTATCACCACAATCTAGCCTTAGAACACTTGTGTTGCC
CCAAAGAGTGCATCATGCCTGTTAGCAGTTTCCACTATCTGTCCCACCA
TCCCCTTGGCCTCAGGCAACCACTGATCTGCTCTCTGTCTCCATAGTTTT
GCCTTTTCTTTACATTTCAAATAAATGGAATTCTATGGCCTGTAGTCTTG
TCTTTGTGTCT

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ATAGAGTCTTCCAATCCATGAGCACAGTTACATCAATCATTTTATAAGCT
CATTTTAGTTTCATCAAAATTTTGTCATATTCAGCATCAAATCTTGCACA
TATTTAGTTTTCCCCTAAATATTTTCATGTCTTTAATGCTATTGTAAATG
ATACTGTTTTGTAATTTTCGATTTCCAGTTATTCCTCCCAATATCTAAGA
CGGCAATTTATTTTCATACATTGACCGTATCTTCTTATATACGACAACTT
TACTAAACTCAATTAGTAGAATCTTTTCAAAAAGTTTTATTTGGATAATT
TTAATGAGCACAAGAGCCGTTTTGTTACATGGAGATATTGTATAGTGGTG
AAGTCTGGGCTTATAGTATAACCATTACTTGAACAATGTACCCATTAATA
TCTCATCCCTCTTCTGCTTGCACCCTGGACCCTTCTGAGTCTCCAGTGC
CTACTATTTTCATCTCTATGTCCACAAGTACTCATTATTTAGCTTCCACC
[A/G]GTAAGTGAGAACATGCAGTATTTAACTTTCTGTTTCTGAGTTGTT
TCTTTAAGATAATGGTCTCCAGTCCATCCTTGTCACTGCAGAAAATACA
TGCTTTTCATTCTTTTTGTATAGCTGTACCTAGCAGATTCTTTGGGATTT
CCTATGCAGATAACTGTGTTGTTTGTAATAAGAGATTTATGTCTTCCTTT
CAAATCTGTATGTCTTTTTACTTTTTCTCATATTATTACACTGGGTAGAA

FIG. 10D2

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CCTGAAGTATGTGTTGAAAATGAGTGGTGAAATTAGACATTCTTGCCTTT
ATTTCTGATTTTAGGAGGGAAGCCATCATTCTTGCATTATTATGTACATT
AGCTGCAGGGTGTCTATAGATATTCTTTATTCAGTTTCAGGATGCTTCC
CTTTTCCTTTAGCTTTCCGAGAATTTTTATCATGAATACATGTGAAATGT
TGTCAAATGCTTTTTTCGCACCTATTGAGATGATAGTATGCTTTTTATTT
TTTT

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TTATTATCAGCTATGAAAATGCATTTACAAGTCACACTGCTATATGTCAG
CACCTGATACCTCCTAGGCCATGAGAAATAAACAGTAACATTTTTGAGA
CTTCTTCTTCAACCCAGTCAACAAACATTCCATTGCAAAGTAAGAAAAGA
GGGCAGGGCATGAATTTAAAAGCAAATTGTTCCACCATTGTCTGGAGTCT
GGTGTCTGCTTCTTTCTGAAAAGATTATTGACTCTTTTCTGTTTCTTTTA
TTAAATGTCATATTCATTTAAGTGTTATGCAAGTTGCCAGTGTGTATGGA
GCATAGTAATAGATGTTTTTCATAAATGCGTTTTATCTTTATTTATCAGT
GACACAAAATGGCAAGTGATAATCAAAGCAATGACTTAGGAATCCTGACC
AAGACAATCTTTCCATGGAAAAGGATCATTTTTAAGAAAATAATAATAGT
GGCTACAATTTTTAAAATGAGAAAAGTGGTTTAGGTGAGTTTTGTTTG
[C/T]TTTTGTAAGGTTGATTGAAATATTTACAGATGGGAAAATGTGTCC
TTTTAAGAGTATACTGTGATGAGTTTTGAAAAGTGTATACAGTTGTGTA
ATTAATCATAACTAAGCTATAGAACATTTCCATCACGCAAATGTCCTT
ATGTCTTTTTATAGCCTATTATCTCTCCTCTCCACCACTCTCTAGCAAGC
AAAAATCTAGTTTTGGGTCTGCTTTTTGCCTTTTCAGAATGCAATATAAA
TGTAAGAGAATTTGTAACTTTTGTGCCTTCTTCACTAACAGAATGTTTT
TCAGATTCATCTATGTTGTTGCCTGTATCAATGCTTTATGTTTACTGCTA
AGTTATGTTCCATTAAATTCATGTACCACAAATTGGCTGTCCACTCACCA
ACTGATGACCATTGAGTTGTTTCTTTTTTTTTTGAGAAGGAATCTCTCC
CTGTCGCCTAGGCTGGAGTGCAATGGCATGATCTTGGCTCATGCAATTC
TGCCT

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GGAAAAGACAAACCACCCATAATTCATAATTCTCTCACCTCTCCTGGAGT
TCTGCTTTATGTTAATTTTTATAGTAGTTTCCTCATAATTAGATATCACA
TCTCCATCCAATATTACATATTGTTTCCTTCATTTAATATTAAGCATTAA
GCATTTTCCATAAAGTTAATCTCCAAAACCATCATTTCAATTGTTGCATA
ATTTTTCATTTGTCCATTTATGTGAATAAATGTACTATATGCTACACAAC
AATTTATTATTGGACATTTAAATTACTTCAAATGTTATTAAAATATATTA
TTATGAATGTTTTGAGCATATTTAAGCATAATTGATGAATTCATAATTCA
GCTGTCTACCATTTAATGACCAATTATTGGCTGCCAGTTATGGTGCCTG
TGCAAATGACTTTTCATACATCTCATTTGATCTTAATAGCACACAGAGTA
ATGTCTATGTTGAAGTAGTTTGTACATATAAAAATGTAAACATAATATG
[A/G]AAACACTCTTGAAGTATTGATCATTTTTGCTAAATATTAATATG
TAGCCACATTTGTTTTAGAATCTTTAAAAAGTAAATATTTACATAGA
GTTGAAACTCCTCATCCTATTGCCTTCCCACCTCCCCGTAGGCGACTAC
TATCCAGAACTTAGTGTTTACATCTCTATTTTCTAATTATTTGCTCATA

FIG. 10E2

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TGAATGTGCCAATAAAGAACACAAGGAATTAATGTGCTTCTTTTAAGATT
TATATAAATGGCATAATATACTGTACATATTTTTGAACTTCGTTGTTTAC
TTGTGTCTTAAATTATGTTGATACATGATGATTTTGTTAATTTAAACAG
CTGCATAGTTTTCCGCTGTATGTATAATCACAATTTATTTATGTGTAAAT
TTGATGAACATTTAGGCTTTCCCTATAATTTGCGTTTGCAAGCAATGCTA
TAATGAACATCTTTTTACATGTCTCCTTTGTGCACATGTGTGCACTTACA
TCTAG

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AATTGAAAAGTCAGTGAAAGATACACACATCTATGTTTACCCCTTTATGG
CAAAGATAAAACTGAAATGCAGTAGGAATTGAAGTGTATTTTCAAAAATT
AATTTTTTCATCAGTTGGATACCCATATGAGAAAACCTGAATTTTAATTTAT
ACTTTGTATTATAAAAAGAAAGTCCAAATGTATTATAGATCTACATATAAA
AATTAAGTTTTCTAAAGGAAAACACAGAAGAATATCTGTAGGCGAAGATT
TCTTAGATAGAATAATCATAAAATACTAACAATAAAAAGAAAGTTGGGCTA
CATTAAAATTAAGAATTTCTATTTGTCAAAAGACAACACTTTGAGAGTGA
AAAGACAAGTTATACGGTGAGAGAAGATATTTATAGTACATATATCTCAC
AATTGATTAGTATTCATAATACCTAAGGAACTCATACACATTGATAATAA
AGATATAAAACTCAATAAAAAAATGGGCAAAAGATTCAAGTAGGCACTTC
[A/G]GAAAAGAAGCTTTTCAAAGGCCCATTAGCATTTGAAAAGATGTTT
AACATCATTAGTCATTAGAGAAATGAAATAGGGAGACTGTCCTATTACCT
GAGTGGGCCCATTACAAGGGTCCTTAAAAATGGTAGCGGGAACCAGAAG
AGAGAACAAGATGAAAGTGAGAAGAATTCAGACCAAAACTGCTGGAGGAA
GTCAGCCAAAAAGTCAGTGAACGAAAAAACTCAGGTGGTCTCTAGAAGC
TGGAAAAGGCCAAAGAAACACATTGTCCCCTAGAGCCTCCAGAAAGGAGGG
TGGCCCCGATAACACCTTTATCTTAACCTAGTGAGATTCTTATTGGACTT
CTAATCTACAGAAGTGTAAAGATAGTAAATTTGTGGTGTTTTAAGCCACTA
AATTTGTGGCAACTTGTACACCAGCAATGGAAAAATCCTTCTATGACCC
AGCAATTCCTCCTAAATATATACCCAACAGAAAGGCAAAGATATATGC
ACCAA

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ACTTAGAGCTGTGCCCTGGACCTCATAGGAAACCTATTAGAGCACTTTG
TGACATGTGTCTGAGACTCAGAACTAAAGCAGAGAAGTGTTTCTAGTGAT
GGAAACTGCATGGGGCAAACAGGGACATATGGGTGAGAGGAAAAGAGAAC
AGTAAAAAGATGTCAAATCTTTTTGTCTGCAGAGATAATGAGGTTTTGGA
GAGAAGAAAGAAGGCCTTTGCCTGTGGCTCTCTGGTGCTCTTTAAATAAC
AACCAAGAAATACCTTATTCTTTGGAGTGCCTCTAATAAAAAATTGTTCT
CTGCATCTGCGATGATCTCTCAGAATGAAACCTTACACCTTGTAGTAGAA
ACTTAGTGCAATGGTTTTTCATGACTTGTAATTTTCTGTGCCAAATGAAA
AGCTTCCTGTTTCAGTGGTCCTGAATTGAGACACCATTTCTAGTCTGCAGG
AGGCTTGTAGGATGTCTTCCCCTGGCTGCTAGTGAGCTGTGGCTCATGTT
[A/G]TGATTTTTTTTTAAGCCTCCAGCATTTTCGCTTTCACTCTGATT
GCATCGGGCGAAGTGGCTTCAGCCAGTCTAGGGTGACCAGTGGTGTACCC
TGGATCCCGCTAGCAGTCAGGAGTACCAGAGAGATACAAGTCAGTGAGGT

FIG. 10F2

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AAACCAATCCAGCTGCAAGTGCAGTGTCTGTGTGGGCTCCAGGGGAGCAT
GGAAATGTCACCTACTCCTGTGGCATCTGCACCACACCGTAGCAATGTGG
GAAAAGCATGAGCAATAAATTACTTGCCAATGAACTCCAGACGTCTCCAG
CCAAGTAAGCATTTCCTGGGACTCTAAGGATGGCGTCCAAGATAAAAAACA
GAGAAAACACATAAAATACGCAGAGCAGACAAAGGACTACATCAAAAAAAT
ATAAACTTCCTCATAAATCAATAAAGGAAAGGCCAAGTCATGATAGAAA
ACTAGATAATTTACAGAAGAAACCTGGAAAGCCAATAATAATGGAAAAAA
GCTTA

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AATGTCATCAGGATCCAATTTCTCTCTCTTTCAGCCCCTAGTCATGCTT
TCTCTATGTAATTTTCATCTTCAGACAGATTTTATCCTTATCACGTGGTCC
CCAGATTCCCCTGGCTGACATTCCACAGCTCCAGGTCCAGCAGAAGGTGA
GACTGTGCTCTCCACCACTCAACCAAGTCCCGTGATGTGTCTCGCTAGA
CCAAGCTTAATCACTTCCATTCTCCTGAACCAATAGCTGTGGCCAGTACC
TGCTCAATTGTTTGACTGGCAAAGCCTGGGCCACGAGTCCACTTCTGGAG
CCAGGGGTGAGGAACTGTCACCAGCAGTAGATGCTGATTAGGAAAAGAAT
ACCCTCAGTCACACTCTGCTTATTCATCTTCATTCAATTTTGCAGAG
ATGAACTGAGGACTTATTTGTGCTAGAACTAGAGACAGAATCCCAGATA
ACTTCTGCTCTTCCTTCACAATGTCAGTCAAGGAGTCATCAGTTCTATGAT
[A/C]AATTTGTTCAATTTCCGCCCCCTCGGCAGAGTCAGTTATTCCCTCC
TTGATGCTCTTGCTCTTCGCAGGATTATGTTGCTATCTCCCCATCTTTCT
CCCTAACTTACTGTGAGCTCCTGGAGGACAGGTATTGTATCTTATTTATC
TTGGCCTCCCCAGATACCAACAGCAGGCACAGACAAAGCATTACAAAACC
TTTGTGAATAAATATGCGAATGATGAGTTAATTATTTAATTAGTTAATT
AATGCATATGCTCCTAATCCTGCAGGGATTTTACAACTATCAAGGAAA
ATAAATCCGTAAATAGCTGGAACACAGTGTGATCCACGGAGTGACAGCCA
CATGAGCAAAGGCTGGTGAGTGCAATGGAAGGTAGCATGTGTTCAACCTG
AAGACAGAATTCTTAAAGTTGTTAAAGATATCCTTTGCTATTTCAAATCT
AAATCATGCTCCCTATGACTTCTATTACCTATTCTTAGTTCTTCATTCT
TCAAC

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GGTACTGTTTACCCTAAAACACCTTCCTACTGATACTCCAAATCCTAATA
GATATTTTTTGAGTTACTTATCACATTCTTGATGTCTGGAAGACAGACAA
TAGGTGGAATCAGTAAAAGATGAACAATGAGGTTGGAGGAAGGGGACCA
AACATTTATTCAGTATTTACTATGTGTCAAACTGAACTGAATAGAATA
GGTGATATCACCCCTACTCTACAGATGAAGAAACCAATACCCTGAATAGG
TTTCCCAAGGAATCCTGAGTTACAGAGCAATGGAGTCAAGATTGAACAAG
TTCTAACTCAAAGTCCTTATGTTTGTCAATTTTATGATGCCGTGAGGTTAG
TACTGGAGGGTTAGATGAGGAACAGGACACCAGGCAGAGAGATGAGAATT
GGATTCTGGGAGTATTCGAGTGTGGGATAACTGAGCCTAATCAAGCAGGT
AGCCAGAGTGGGCACAGAATTTCAAGACCAGGCACCAGCTACTAGACAGA
[A/G]GCTCCATCATGACCTAACCTTGGCATTATTGCAAGATTTTACAAG
CTTCTTATTTATGGGAAGAGCCACACTCTGAATTTGGCTATCTTGAAGGT

FIG. 10G2

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TACAAGTCAAAGTGAATGGCAGTAACCTGCTTTATGGAAACCCTGAGTAG
GTGTAGAGCAAGACAAGTTTATCCCTGGAATCCCTTCCATGATCTTATTT
GAAGAAGTATTCTTAGGTAACAATACCCCAATGGTTCCCAACCCATGGGA
GCTTCTGAATAGTTAGTACACCTGGGACCCATCCAAGACCAACTGAGTTG
GGTTTCTAGGTGTGGGGCCCTGGCATCTGTGCTCTCTGAAGTTCTCCAGA
CCTGATGAGCAGCCAGGGTTGAAACCACAGCCTTGGGTAAATGAGCTTT
CTGTAATATATGTTATTTCTCTGAGAGGTAGGACAGAGTTACAATGCTGC
AGAATTCTAAGGGGCAGAGGGAGAAGGGGGAAAAGCTTCTGGTCCTAAAA
GTTGA

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GACACTTGCAGACTCCTTGAGGTGCATCATTATTGGAAAGATTAGACTAC
CTCAAAGTGCAGTGTCTTTCTGATGGTTATAGGAATCTTTATGGACCTA
CATCCTTTTGCCCTATTAAATCGCCTAGAACATTGCTTCTCAAACCTTAA
CATGTACAAAAATCACCTGATGGTTGTGTTAAAATATGAATCCTGATTG
GTAGAGTTACTGCATTTCCCATCATCTTTTAGGTGATGATGAGACTGCTG
GTCTGCGGTCTACCTTTTGAGAAGTCAGAGGACTAAAGTCAAAGTCCTTA
GACTGCCTCCAGTTCTACTGTTTCAGATCCAGTCCCATTGATTTGAGGGCT
GGAGTGTTCTCATATAAAAAGAGGTAGAAGATGAAAAGTAACTGAGATTT
GAAATCATATCTAGGCCACTGAACCCTGAACTAGGCAGTGAAGCCAGACG
GACCACGCCAAATCAAAGCCCTGGAAGTTTCATGTAGTCATTCCAGACAT
[A/G]CCCCTGAGGCCACCAGAGCCATTTGTTCCAAAATCACTTGGAAGA
CAGAAAGCAATTTGAAATCATGCCTGAGCCCCAGGCACCCAGGGCTGCC
AGTGGGGTCAGCTGCCCTGATTGAATGGCACTCCATTTCTGTCCCCCAG
AAACTGTTGGATCCCCAGCCTGTTTCTTCACGAAGGTTCTCTTTTGTAT
TGCTTCAGAGTATTGCACAGGATATTAGCCACTTCCTTCTCTATAATTCA
TCCTTCCACTTTGCCATCTGGAATATTTCTCTTTTACAAGTGCCTAAGTT
GTTACAGTTTGAGGCAGTTGAATCCTAACTTTGCCATTTGGGGTAATTTA
TTGTTTTTAATGCTTTCTTCCAAAATTCAGATTCTGTGGTTTGAAACAG
AATCCAGCCAAGATTTTGCTTCCTAGTTGGACATCTGGTTGTCTGTCCT
TTCCAGGTCTTCTCTGGGTTTATTTTTCAGCTTCCCGCAAGTGAATCA
GCTCA

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AAAGCTCCTTATCTTTAAATGTTGCATCAAATATTGTAAACAAAACCTAG
GTGTGCCAAACAAAACATGTTTGAATGTCATTTTTTAAAAACTCTTGGCT
ACCAGCTGGAGCTCAAACAAACAATGACATGCAGTGAATGCTCTTATCCT
TTCCAGGTCTCTAAGAAAACCCAAAGTCCCTGCCTCCAACCTTCCTCCCC
GACAGATACCCACACTACATCCCCTCGCTCCTACTGGCTCCCCAGACAAT
GAGCTGGACAATATGACCCAAGAATTTCACTGCCAAGGTATTGCTGCCAA
GGTTTTTCGAGTTTCAAGTCCCTAGTTTAGAGTGAGTCATCTCAAATTCAA
TTAGTGAGAGTTTCTCTGGGTTCACTCACCAGTGGCAGAGGGAGAAATG
ACTCAGACGGTGGAGCATGCAGTGCCTAATGGGTCCAGCATGTGGGGGCT
TTTGAGATTGTTGGGCACGGTGCTCATGGTGGCCGAGGGGAGTACAAAGC
[C/T]GGGCTGGAGGTTGCAACATGCTCTCAGCTCAACTCATTGTTGGCT

FIG. 10H2

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CTTTTGGACTGAAAGATATTTGAGATATTTGTATTTGACCTCAAACATAT
GGTGGATCTAGCACCTCAAGGATATATATTATTATAAGCCTGTTGGCTCC
TATTCCAGCCTCGTTTCCCTTCTGCCAGCCTGAACTGCACATTTTGCATT
TGGCATTACCAAACCTATTGTAATCCCCAGGCTCTTCTTGCCTCTATAC
CTTAGTGGTGCCATTGTTCCCTGGAATACCTATATGTGCTTCTGACAAA
CTCCTTTTGTGCTTTAAAGCTCCAAACAGACATCACTACTTTTGGGAAA
ATAACTCTAACACCCCCCATTTGTTAACTTGTATTCTTCCTTTGTCCA
TCTATAATTTGAACTTACTTTTACATTGTATAAAAACCATTTGCTTATC
TGCTTGTCTGCCTAGTTAAGGAGAAGCCTTTAAGGTCAGAAAGCTTGTA
TATTC

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ATTAAATAAACCAACCTATGCAAAATACTTGAAAGGGTTCCTGGCATAAA
GTAAGCAATATATAAGCATATAAATATAAATCTAATTACCATTTTCAACA
TGTTCCAGACACAATGCATATATTGGTCTTATGAAGTAGATATTTATTTT
CTCATAAATGAAACAAAGACTCGGGAAGTTATACAACAAAAATAAATCCT
GATAAGAATAGAGAAGAGAAGGTTCTATTGCCAGCCTGGGGAAGTCCTT
GAAAGCTTTAGGGAAGAGCAGGCAGATGAGTACAGATGAAAGGAAGGGGA
GCATTGAAACATGAATAGATGGAGAAAAAGAAAAACATTCCATGCAGTGT
CGTGGGTGCCAGGTCTCCTGGGAGAGGACATTAGATGCCCAGACTTGGAC
CAGCAATGACATTCCATTCACTATGCATTGAATGAGCATCCATTAAATAC
ATACCATGACACAATTATGATGGGAAACGTAAGATAATACATGTAACCCC
[C/T]GCCTCAGTATGTCTACTATATGTTCTGCCAAAATAGAATGAGTAG
GTGAGGTGGAGGTTGCTGACCTTCATGCCACCCTTTTATTGCATTATTT
TCTAATAAATTCCTGAGCACTGAGCAGATGAAATATGCCAAAGAAATAAT
ACTTTGAGGTCCATTCCCTCTGTTACCAAACTGTCATCAGAGTTTGTCTC
CTCATTGGTAGCTTCAGAATAGGCTTTGCAAACACAAATGCCTATAGGGC
CAAAAAGGCCCTTGAATGTTACTACACAAGTGAAACATTCTGGATATAAG
TGCAGGGGCATCAGAATGTAAAAATCGGGGTGAAGACTCTGGAAACCTAG
GGAGCACACCACCTGTACCAGGGATATCCATTCTTCACTTGCAGTGGGTT
ATTGCCAGGTCTTCAATGCTTTAACAGAATCAGAAATGTGGTATGTAAT
GTAAAAGCTCCTTATCTTTAAATGTTGCATCAAAATATTGTAAACAAAAC
TAGGT

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GTTGAGGATTTTGCATTTATGTTAATCAGGGATATTGGTCTGTAGTTTT
CTTTTTTTGTTACGTCCTTCTCTGGTTTTGGTAAACAGGGTGGATTTACTG
GCCTTGTGGAATAAGTTAGGGATAAATCCCTCCTCTTCAATTTTTTGGA
CAGCTTCAGGAGGATTAGTCTTAGTTCCCTGTACATTTGATGGAGTTTGA
CTGTGAATCCATCTGGTCCTGGGCTTTTCATCAGCTTTGGACAAGAACAA
ATTTTCCCTTTTATAAGAACACCAGTCATATTAGATTAAGACCCACCCT
TATGACCTCACTTTAACTTATCTGCAATGACCCTATTTCCAAATAAGTTT
CATTCACAAATACTGGAGTTAAGGACTCTAATAATATATTTTGTGGGGGA
CACAATTCTACCCATAATACAGCCCATGCCTTGCTCCCAACTTCTGGTTA
ACATCAGACCTGCACAACTTTCCTTGGTTAATAGATTTCTTGAGCCTTC

FIG. 10I2

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[C/T]GTTTTCTGACTCTAATTTAGGTCTGTGTGCCTTCCAGGCACATTC
CTCAGTACTTCCTACCTGGAGAAGAATAAGGGACTACTGCAGCTTCCTGC
AGGAGTTCTCTCCAGCAAAGAAAGGCCTCAAAGACATCTTCCTAGAGATT
ATTGTCAGACAGCTATTGCATGGAGAAGCAGCAGAGCTGGGAGGACCCTC
AGGGGTCATATGGCCATTTTACAGAGGAATGGACTGGGTCCCAAAACAAT
TAAGTCATTCTTGTCCAGGTATGTGTCAGAACCAGGCTGCCAACTCAGTC
TTCTCATTTGAAGCTCTGGTACTTTTCTCATTCCACTTAAGACAAGCTCAG
CTCTGTCCTAGACATTATAAGGGAATCAAAAAAATATATAATATTTTCATT
GAGTTAAAAATGCACATATTTACATTTTGAATCTCCAAAATAGAGATG
CTATTTCCATTTGATGGCATGTCTAATCGGCAGCATTTTCTCTTTTTTAG
TAGAA

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TGAGAGAGGAGTGCAGTGGCGTGATCTCGGCTCACTGCAAACCTGTGCCTC
TCAAGTTCAACCAGTTCTCATGCCTCAGCTCCCAAGCAACCAAGATTAC
AGGTGTGCACCACCATGCCCGGCTAATTTTGTATTTTGTAGTAGAGATGG
GTTTTACCATGTTGGCCAGGCTGGTCTCAAACCTACTGCCTCAGGTGACC
TGCCCTCTTCGGCCTCCCAAAGTGCTGGGATTACAGGTGTGAGCTACCGT
GCCCAGCCCTCTTGCCACTTCTATTTCAACATCGTACTGGAGGCTCTAGC
CAGTACAACCTAGACAAGAAAGTTAAATAAAAAACATACACAGTGTAAGG
AAGAAATAAACTAGCTCTCTTTCAGATGATATAATCTTGTAACAGATC
TTGTAGAATCCTAAAGAACCTACTAAAATTATTAGAATAACATGACAAGT
TTAGTAAGATTGTAGGGTATAAGAGCAATATACAAAAATCAATTGTATTT
[A/G]CATGTACTAGCAATGAACAATCTGAAAATGAAATTAAGAAAATTT
CATTTATAATAGCAGGAAAAAGAACAAGTAAGCTAAAATACTTAGGAATT
AATTTAACAAAATAAGTGAACAACCTGTACTTTGGAAATGACAAGACATTG
TTGAAAGAAATTAAGACCAAATAAGTATAAAGACACATCACATTCTCAG
ATCAGAAGGCTTAAAATTGTGGAGATGACAAAACCTGCTCAAAGTGATTCA
TATATTCAATGCAGTCACTGTAAAACCTCCAGCTTGCATCTTTTCAGAAA
TGGACAAGCTGATTCTAAAATTATATGAAAATGCAAGGGAACAAGAATT
GCCAAAGAATCTTGAAAAATAACAATGTTGGAGAGCTCACACTTTCTGAT
TTTAAAACCTTACTACAAAGCTACGTTAATCAGAAGTGTGGCACTGGCATA
AGGATAGATTTATAACTCAAGGGAATAGAATTGAGAGCCCTGTAGTAAAA
CTCTC

>SLT_RS2338654

CTTTTTATGTGTTTTAAATTTTCCATAATAAACAGTTTTTAAATATATAT
ATAAGAGTATTGACATACCTATGAATGCAAGATCGGATTAAACATCTGAAT
ATCAATTAATGAAATATACATATCAATAGAATAAAAAACAAAGAACATAA
GGTCATCTCAATAGATGCAGAAAAAGCATTTGACAAAAATCTAACACCAC
TTCATGATAAAAAACACCTAACAACTAGCAATAGAAGGGGACTTTCTCAA
CCTGATGAGGGCCATTTACAAAAAGCTCACAGCCAACATCATACATACTT
GTGGAAGACTTAGTGCTTTCCCTCTAAATATTAACAACAAGACAAAGATG
TCTTCTCTTGCCCTTTTTTTTTTTTTTTTTTTTGGAGACAGGGTCTTGCT
CTCTCACCCCTGTGAGAGAGGAGTGCAGTGGCGTGATCTCGGCTCACTGCA

FIG. 10J2

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AACTGTGCCTCTCAAGTTCAACCAGTTCTCATGCCTCAGCCTCCCAAGCA
[A/G]CCAAGATTACAGGTGTGCACCACCATGCCCGGCTAATTTTGTAT
TTTGTAGTAGAGATGGGTTTTCACCATGTTGGCCAGGCTGGTCTCAAATA
CTGCCTCAGGTGACCTGCCCTCTTCGGCCTCCCAAAGTGCTGGGATTACA
GGTGTGAGCTACCGTGCCCAGCCCTCTTGCCACTTCTATTTCAACATCGT
ACTGGAGGCTCTAGCCAGTACAATAAGAAAGTTAAATAAAAAACA
TACACAGTGTAAAGGAAGAAATAAACTAGCTCTCTTTCAGATGATATAA
TCTTGTAACAGATCTTGTAGAATCCTAAAGAACCTACTAAAATTATTAG
AATAACATGACAAGTTTAGTAAGATTGTAGGGTATAAGAGCAATATACAA
AAATCAATTGTATTTCCATGTACTAGCAATGAACAATCTGAAAATGAAAT
TAAGAAAATTTCAATTATAATAGCAGGAAAAAGAACAAGTAAGCTAAAT
ACTTA

>RS2112330

TCTTCTTGGTTTGGATCCGTTGCTGGTGAGCTAGTGTGATTTTCTGGGGG
TGTTAAAGAACCTTGTGTTTGTGCATATCACCAGAGTTGGTTTCTGGTTTC
TTCTCATTAGGGTAGGGTCTGTCAGAGGGAAGGTCTAGGGTTTAAGGCTG
TTGTTTCAAGATTCTTGTCCCACAGAGTGTCCCTTGATGTAGTACTCCC
CCTCTTTTCTAGGG[A/G]TGTGGCTTCCTGAGAGCTGAGCTGTAGTTC
AGCTGATTGTTATCTCTCTTCTTGATCTAGCCACCCAGCAATTCTACCAG
GCTCGGGCTGGTACTGGGGGTTGTCTGCACAGAGTCCTGTGATGTCAGCC
ATCTGGATCTCTCAGCCGTGGATAACCAGCACCTGTTCTGGTGGCAATGGC
AGGGAAGTGAAATGGACTCTCTGGAGGGCCTTAGCTTTGGTTTTTTAATG
CACTATTTTGTACTGATTGGCCTCCTGCTGGGAGGCACTTTCAAGAGAG
CCTCAGCTATGGTAGTATGG

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TTTACTAGGTTATAAGAACATAAATTATAAAACCAGAGAATAATTATTGA
GTTAATTATACAACTATGCATTAGGTACTCACTTATCCTATTAACTCT
TTTAGCAAATGTAAAGGTTTAGGATCATTATGTTCAATTACAGACAGAAA
GAGAGAGACCTCAAAAATTACATGATTTACAGAGCTAGAAAGTGTAGGAT
TTGGTATTCTAACTCAGATTTATCTGACTCCTAAAGTTGAGGGTCAGCCT
TGCTGCATTCTCTTGCCCTCCACACGAAGCTGTCAGTGACTGCCAAGAGTT
TATATTTTACTCATCCCTTCTAGAGGGCATTGTCATTTTAATAAAGTTC
TTCAACACTTTAGCTCAACGGTTATCAAAGTACAGTCTAGGGGTCTCCTG
GGCCCTAAAAACCTTTCAGGAAGTCTGCAAAGTCGAACTATGTTCTTAG
TAATACTTAGATGTTATTTGCCATCTTCACTGTGTTAACGTTTGCACTAA
[A/T]GGTGAAAAAGCAATAGTGGATCTAACTGCCAGCCTAACAAATCAG
GGTAGTGGCACTCAGCTGTTATTGCATTCATCAACATCATCCTCATAGGG
GGGAAAAAGTCCATTTTCTTAAGAATATTTATGGTGAAGCAGTAAATATT
ATTAATTTTATTGTATCTCTACCCTTGCATATACTTTTAAATATATTCTG
CAACAAAATGGGACGCAAAACATAAAGCACTTCTGCTGCATAACAAATTTT
CAAGGGAAAGCACTTGTGTGATTGAGCTGTGAGTTGAGCTAGCCACTATT
GTCATGGAACACCATTTTTTTTTCATGAAAAAATGACTGACAGGCCAACTG
GTTATTCAGACTTGGGTATTTGGCAGACATTTTCTCAAAAATGAACAAAG

FIG. 10K2

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TGAGCCTGTCGTTTCAAGGAAAGCGACTGACAGCATTGATGTCAATGAT
AAAATGTGAGTGTTCAAGCAAAAATTAGAATTTTGAAAAATTTATATCTG
CCACA

>SLT_RS1990893

CAGCAGATACGTGGATAAGGAATGTGTGGTATATATACTCAGTGGAATGT
TATTCAGCCATAAAAAATAATGAAATTCTGTCATTTGCAGCAACTTGGGTG
AGGCTGGGGACATTATGTTGAGTGAAATAAAACAGACACAGAAAGACAAA
TATTAGATATTCTCACTCATATGTGGGAACTAAAAAAGTTGAGCTCATAA
AAGCAGAGAGTAGAATTGTGGTTACCAGAGTCTGGGAAGGGTACTGGGGG
ATAGGGAAAGGTTGGTTAACAAGGACAAAATTACTGTTAGAGCAATAAGT
TCTAGTGTTCTATAGCACAGCAGGGTGACTATAGTTAACAATAATTTATT
GTTTACTTCATAGTAATTAGAAGGGAGAATTTTGAATGTGCCCAACACAA
AGAAATGATAAAAATTGATTTTCATCATTACACGTCATATACATGTATCAAA
TATCACATGTGCCCCATAAATATGTACAGTTATTGTTTGTGAGTTAAACA
[C/T]AAATTTTTTAAAAGGTGTTTATAAATGTCCTAAATTAAGACACAG
CCTTATCCTACGGGATTTTCTGAAGCTGGCTTCCCCATTTTCTGTTCTCC
ATAGTTATAGGACAGGCTGGCAGGGGCAAGACTCGCTGGGGCCAAAGTAG
ACGTGTATGTTCTTGATGCGAGCTTTATATCCCAAACATATTGATTTTTA
TTCGGGAGTTTACCTAAACCATTTTTAGAGTTATTTCTATGTGCACAAGC
TAATGAATCCAAGGATTCCTGCCTGCTTTGTAAAATAGCATTTTTAGCTA
CTGCTGATCTGACCCCTGGAGGTCTAGTTTTCTGGGACTGTCTGAACCTA
TCTCTGTTCACTCTATCAACGCCCAGCATGCTATTACACACCTCTCTTTA
GTTCTTTCTACAAGAAAGAATTTCTTCACAAGTACAGATACGTGTTTAA
AGAGCCACTCACACATCTCCCTTCTCATCTCTTGGTGTCTAGGAGAAA
TGGAA

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TGGATTCCTATTGCAAGTAGACAACTGGAAGAACTTCCTCTCAGGACACT
GAGGAGAGTTTTCAAATGAAATTGTGATGTCATTTTCCAGAAATATTTT
AGGTTTAAATGAAAGGACACGTGCCTGAAATGGGTAGACAAGTTATTTCC
TCATGGGGTAGGAGAGAACTCACTGAGCTGCATCCCATTGTAATGGCTGGG
ATTGAAGTTCCTCTTTGGAGGTAGAGGAGAACCAAGTGCTGAGAAGAGGC
AACACAGCTTCAAAGACCTGCCCCAAATCCATCAAAAACAGTTCTTGCTC
TGTCCTTAGGCTGGAGTGCAAGTGGCAGGATTATAGCTCACTGCAGCCTC
GACTTCCCAGGCTCAAGCAATCCTCCCTTGGGCGGGGCCCCAAGTAGCCT
CCTGAGTAGCAGGGACCAGAGTTGGTAAATATGCAGATGTGGAACCTCA
GGTTATGGAGGGCCTACTGTACGTGTGTGTGTGTGTGTGTGTGTGTAT
[A/G]TATAGTTAACATTTGCAGTGACACAGATATTTTCATCCCCTCCCT
GAAGATGAGGAGGTGAAGATGGCTACACAACAGTCTCATGGCAGGTTAGC
TGGTCTAAGGAGAAGGTGCTAGAAGGAAGAGGCCTTCTGAAGCTTGTGAC
TCAAGCACTCCCCACTGCTCTGCTTGTATGGTGTAAATAAATGCTATATT
TCGCTCACAAAATATATACAGAATAAGAGCTATGTTTCATATAAAAATGA
CTCTTCTTCTACAGTCTCACTATGTGTTCTGTGAGTACAAGGAGTGAGG
GCTTGGCTCTCTTTACCAAGGCACTGTCTGTCTCCAGCTGTATTACAGC

FIG. 10L2

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ACACATGTAGGTGCACTTATGTACAGATACGCCCTGTCTCACTGACACAG
GACCCAGGGTCAGTTTTTCATTTTGGTGAATGATAATTTCTAGATTAGGTC
ATTTTCATATGGAGTTTGCCTATTGGGGCATCCTAATCTGAGGAAAGGCC
TTTGT

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TTCTTGATGGAGGACTCCGCTTGGTCTGAGATTCACTGGACAGCACGTGG
ATTGCTCTCAGACCCCGTCCCATCAGTTATGGCTAGATCTGGGTGGGGCC
CAACAGCATTCAACATAGCGACCCAGATTTGCCTTCTCAATACAACCATG
GGTAGGGAGGTCCCTCTAGGAGACATGTCTCATATAAAATTATTTTTCT
TTGCTCTTTCCCATAGGATTTGATAATAAAGTAGTGCAACTCTAAAGGGA
CCAGGAGTCCAGAGAGGTACGTTTGAGTCCCTCTGTCTTATTATGTCTGA
TGTCCAGTTTGCAGCTTTTTAAATTCTGCCACATATGAGTTCTATTAGAA
TAGACTCTATGAATCCTGGAATTTAACCTTGGCCTTTGTTGTCCATGACT
CAGAGAATACACTCATGTATCTCAGTGCTTGAAAGGAGAATGGGTTATAA
ATTCTGGACCCCTTACTTTAGAGATGAGGAAACAGAGACTTTAGAAATGG
[A/G]TTGATTAATAAATTTTGTAAAGTATGTAAAGGCAGAGACCTACGAAA
CTCACCTCTCAGTACTCCAAATACAGCACTCCTCACTTCACTGCACTGCT
TCCCTGGGAGGAAGAGGCAACTTAGGAGCCAGTGAAGGTGGACACGCGGA
GCTCAAAAGATAGCAGGTGGGCTCATGTTGACACCACCAACCCCATGCT
CACCACCTGAGAATTCAACAGCCAGATTTCTGCTGCCAGGTTGGCTGCTG
GCATCTGCATCCAGCTGACCTGCTTCTAAGATTGAATGCAAGTTTCACTC
AGCCCAACTCTCTACCCATCCCAGTGACCAGCATTGGCTCAGAATCTTCC
ATTCCAGCCCTTGTTTCTCAAAGGGAAAGAGGTCAGCATCTTGGCACATC
TCTTTAAAGTCATGTTTACATGCTGCAGTAGGCTCTCTGGGGAGCTGGAT
AATATTCTGAGCTTAGTGACTTCAGCCTGTATAAACTCATGGAGTATTTA
CTTAT

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CAAATTGCTTCAAATAAAAGAATGCTGTTTTAAAGATAGATATGGCTCTG
TTGAGGGCTAGAAATCTTGGGCACCAATATCTGTCTTGGAGAGTGTCTTC
TCTCCATCTATCCAATATCGTCTCTTTTTAAAAAAAAAAAAAAAAACCGTTT
TTTTGGCCGGGCGCAGTGAATCACACCTGTAATCCCAGCACTTTGGAAGG
CCGAGGCAGGTGGATCACAGGTCAGGAGTTCAAGACCAGTCTGGCAAAG
ATGGTGAAACCCCGTCTCTACCAAAAATACAAAATTAGCTGGGTGTGGT
GGCGGGCGCCTGTAATCCCAGTACTTGGGAGGCTGAGGCAGGAGAATCA
CTTGAACCCAGGAGGTGGAGGTTGCAGTGAGCCGAGATCATGCCACTGCA
CTCCAGCCTGGGTGACAGAGTGAGACTCTGTCTCAAAAAATTTTTTTTAA
ATTTTCTGAGTATATAGTAGGTATATATATTAGGTTGGTGCAAAAATAAG
[A/G]GTAGTTTTTACCATGAAAAGTAATTGCAAAAACACAGTTACTTT
TGCACCAACCTAATATTTATGGTGATTCTTCTCTATGGTCCTGTTGCTA
TGCCACAAACCACTCCCAGATGGAGTGGCTCAAAAGAACAGTGATCACTA
TTTCTCATGCCTCTGTGGGTTGACTGCACTCTCTAGTTCTTTCTCAAGGT
GTTTCTTGTAGTTGCAGTCAGGTGGCAGCTGGGGCTAGATTGATCTGAAG
GCTGAACCTAGCTAGACTTGCAAGGTGGCCCACTCACATGGCTGCTGGCT

FIG. 10M2

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AGGAGTTTAGCTGAGGCTGCCAATTCAGTAACTGTGTCTCTCCATGTG
GCTTGGATTTCTCTTGGCGTGGCAGCTGGGTTCTGAAGGGAACATCCCAAG
ATACCCAGGTGGAAGCTGCAAGGCTTTTTACGGCCTATTTTGAACCA
TGCTCTGTTATTTCCACCATGTTGACCAAGTTGTAGGGTCAGTCCCAATT
CAAAG

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CACCTCCTTATGGCATACTTGCACCAAGGTGGTGGAGGTGCTTGGGAAAC
CATCTGATTGCATGGCCTCTCTCAGTCTTTCCCTCCTGTTTTTCTTTTT
CTGGGAAAGACTGCATGAGACCCATATGGCAGGGCAAGTGGGAGCCATAA
TGTGGGTTTCATGAAAGGAGCACGGATAATGGTCACTTCACAGCCTCACTT
TCATTACTGAGAAGGTGGATGGAGGAGAATTACCATGCATCTCATTAAAT
CAATATTTTATTTCCCTCCCTGCTCCCAGCTGCCCTCCCAGCTTTGATCTC
TTTGCTCTGGGGCAGTGCTGGACAGGTGACTTTCATGATGCAAATCAGG
GTCGGCGGGCTGTCTGCCCAGGCTTTGATCTCCTACCTAAGAGAAGGCTG
GCAAGGAACGCCATGGGCCCCAGCCCCAGGTTCTCTGTAACCTTAGGCGA
GGTGGAGCCTGTGGAAGGACTGTTCTTTTGTCTTTGTGAACAGCAGGAGC
[C/T]GTTAAACTACCTGAGTTCAGTAATGTACACCATGTGAAGTGTTG
GAGGAGCTAGACAGGAGAGGGCATCTTGTTAACAGATATCTATTTATCT
TATTCAAATATAGGTAACTAGCTAAGTTTAGAACAAGGCCAAGGCATTG
AGAAATAATAGATTCTCCACCTGTCATACTGGGGGCTTCTTTTCTTGACT
CTGATAAAAGCTATGCATACTCTCCCTTTCCCAATATTTGTTTTTCTT
CTTTTGCCATCGCTATTGATGCCTAGCCATGGTTCTGGGGTAGAGAGGAA
GAAGGACATGACATAGCGGAAGTGAGAGTTCTTCCCTAAGCACAGTACAG
GCTGACCAGGAAGGGGAGGTAAAAGCAATTCTCAGACGTTGCATTTCTGG
AGCTTACAGGGAGAAAAAGGAAGATAGAGGGAGGAGAGGCAGGGAGAGAC
ATAAATGTCTTCATCTCCTGATGACCAGGAATCTGATGAGTAACGCTTGG
TGCTG

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TTGCCC GCCCACACTCCGCAGCCAGGGCCAAAAGGGCTTTGGCTCCTCTT
ACACAGAAACTGTAGCTGCTTCTGTGGTGAGCCACAGCTCCCCAGGGCCC
GGCCTCTGATGAGGGTCAGTGACGTCATCTTCGGCAGGAGTTTCAGACGG
AGAATTCCCCCAAGACCTCGAAATCAATATGTCTCTGCCCCGCTTTGCCT
TTCCAGCCAGAAAATATGCCATTACTTGACTTTTGTCTGCTGCTTTAAG
ATCTCAGCTTGTTACCAAGCTTGACATGCCTTCTTATTCTCATCTCCGCC
CACCTTCAACCCATTTCATTGAAGCCCAGCTCGAGTATGGTAAACTTCAGA
GCACTTCAGCAATAGAAATTCTCAAAGTTAGCAAAGTCATTTTCCGTTTG
TCCTCTGTGGCTTCTTCAGTTACTAGAGAAGAAGCATCGGGGGCTCTAGA
GTACCCTTCCCCCATGTCTTTTGAGCAGATGCTCTTTTATCTGTTTTAG
ATTTTGAGTTTCTGCATGTAATTATTTTGAAGTGGGACTGAAACAGTTC
AGAACACACCTCCTTATGGCATACTTGCACCAAGGTGGTGGAGGTGCTTG
GGAAACCATCTGATTGCATGGCCTCTCTCAGTCTTTTCCCTCCTGTTTTT
CTTTTTCTGGGAAAGACTGCATGAGACCCATATGGCAGGGCAAGTGGGAG
CCATAATGTGGGTTTCATGAAAGGAGCACGGATAATGGTCACTTCACAGCC

FIG. 10N2

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TCACTTTCATTACTGAGAAGGTGGATGGAGGAGAATTACCATGCATCTCA
TTAAATCAATATTTTATTTCCCTCCCTGCTCCCAGCTGCCCTCCCAGCTTT
GATCTCTTTGCCTCTGGGGCAGTGCTGGACAGGTGACTTTCATGATGCAA
ATCAGGGTCGGCGGGCTGTCTGCCAGGCTTTGATCTCCTACCTAAGAGA
AGGCTGGCAAGGAACGCCATGGGCCCCAGCCCCAGGTTCTCTGTAACTT
[A/G]GGCGAGGTGGAGCCTGTGGAAGGACTGTTCTTTTGTCTTTGTGAA
CAGCAGGAGCCGTTAAACTACCTGAGTTCCAGTAATGTACACCATGTGAA
GTGTTGGAGGAGCTAGACAGGAGAGGGCATCTTGTTTAAACAGATATCTAT
TTATCTTATTCAAATATAGGTTAACTAGCTAAGTTTAGAACAAGGCCAAG
GCATTGAGAAATAATAGATTCTCCACCTGTCATACTGGGGGCTTCTTTTC
TTGACTCTGATAAAAGCTATGCATACTCTCCCTTTCCCAATATTTGTTT
TTCTTCTTTTGCCATCGCTATTGATGCCTAGCCATGGTTCTGGGGTAGA
GAGGAAGAAGGACATGACATAGCGGAAGTGAGAGTTCTTCCCTAAGCACA
GTACAGGCTGACCAGGAAGGGGAGGTAAAAGCAATTCTCAGACGTTGCAT
TTCTGGAGCTTACAGGGAGAAAAAGGAAGATAGAGGGAGGAGAGGCAGGG
AGAGACATAAATGTCTTCATCTCCTGATGACCAGGAATCTGATGAGTAAC
GCTTGGTGCTGGGGATCTGATGCTCTTCTGCTTCATATTTCAGACTCTCA
GAGTAGATAATTTTACAGGCTGCCTTTATTAGTGTGAATAGAGTTAGGTT
CATGAACATAAATTCTTACATTGTTTTTATATTTCTTATTACATTACAGA
ATTGTAAAAACCTTGTTAGTGCAAGTAATTATTCATAGACTAGCTTCCGG
AAACCTCTGTCCTAGACTCTCTACTCACTAGGTTTCTATTTCTGTCTTGT
TCCAGTTGGACTTTAGTTGGTTTGTATGTAATAAGGAAAGGAGATCCC
CTCAAATTGCTTCAAATAAAAAGAATGCTGTTTTAAAGATAGATATGGCTC
TGTTGAGGGCTAGAAATCTTGGGCACCAATATCTGTCTTGGAGAGTGTCT
TCTCTCCATCTATCCAATATCGTCTCTTTTAAAAAAAAAAAAAAAAACCGT
TTTT

>SG05S459

TTAACATTTTCACCACTTAATCCTTAAATCCTCCGTTGCCCGCCACACT
CCGCAGCCAGGGCCAAAAGGGCTTTGGCTCCTCTTACACAGAACTGTAG
CTGCTTCTGTGGTGAGCCACAGCTCCCCAGGGCCCGCCTCTGATGAGGG
TCAGTGACGTCATCTTCGGCAGGAGTTTCAGACGGAGAATTCCCCAAGA
CCTCGAAATCAATATGTCTCTGCCCCGCTTTGCCTTTCAGCCAGAAAAT
ATGCCCATTAATTGACTTTTGTCTGCTGCTTTAAGATCTCAGCTTGTTAC
CAAGCTTGACATGCCTTCTTATTCTCATCTCCGCCCACCTTCAACCCATT
CATTGAAGCCCAGCTCGAGTATGGTAAACTTCAGAGCACTTCAGCAATAG
AAATTCTCAAAGTTAGCAAAGTCATTTCCGTTTGTCTCTGTGGCTTCT
TCAGTTACTAGAGAAGAAGCATCGGGGGCTCTAGAGTACCCTTCCCCCAT
GTCTTTTTGAGCAGATGCTCTTTTATCTGTTTTAGATTTTGAGTTTCTGC
ATGTAATTATTTTGAAGTGGGACTGAAACAGTTCAGAACACACCTCCTT
ATGGCATACTTGACCAAGGTGGTGGAGGTGCTTGGGAAACCATCTGATT
GCATGGCCTCTCTCAGTCTTTCCCTCCTGTTTTTCTTTTTCTGGGAAAG
ACTGCATGAGACCCATATGGCAGGGCAAGTGGGAGCCATAATGTGGGTTT
ATGAAAGGAGCACGGATAATGGTCACTTCACAGCCTCACTTTCATTACTG
AGAAGGTGGATGGAGGAGAATTACCATGCATCTCATTAATCAATATTTT
ATTCCTCCCTGCTCCCAGCTGCCCTCCCAGCTTTGATCTCTTTGCCTCT

FIG. 1002

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GGGGCAGTGCTGGACAGGTGACTTTCATGATGCAAATCAGGGTCGGCGGG
CTGTCTGCCCAGGCTTTGATCTCCTACCTAAGAGAAGGCTGGCAAGGAAC
[G/T]CCATGGGCCCCAGCCCCAGGTTCTCTGTAACTTAGGCGAGGTGG
AGCCTGTGGAAGGACTGTTCTTTTGTCTTTGTGAACAGCAGGAGCCGTTA
AACTACCTGAGTTCAGTAATGTACACCATGTGAAGTGTTGGAGGAGCTA
GACAGGAGAGGGCATCTTGTTTAACAGATATCTATTTATCTTATTCAAAT
ATAGGTTAACTAGCTAAGTTTAGAACAAGGCCAAGGCATTGAGAAATAAT
AGATTCTCCACCTGTCATACTGGGGGCTTCTTTTCTTGACTCTGATAAAA
GCTATGCATACTCTCCCTTTCCCAATATTGTTTTCTTCTTTTGCCA
TCGCTATTGATGCCTAGCCATGGTTCTGGGGTAGAGAGGAAGAAGGACAT
GACATAGCGGAAGTGAGAGTTCTTCCCTAAGCACAGTACAGGCTGACCAG
GAAGGGGAGGTAAAAGCAATTCTCAGACGTTGCATTTCTGGAGCTTACAG
GGAGAAAAAGGAAGATAGAGGGAGGAGAGGCAGGGAGAGACATAAATGTC
TTCATCTCCTGATGACCAGGAATCTGATGAGTAACGCTTGGTGCTGGGGA
TCTGATGCTCTTCTGCTTCATATTTCACTCTCAGAGTAGATAATTTTA
CAGGCTGCCTTTATTAGTGTGAATAGAGTTAGGTTTCATGAACATAAATTC
TTACATTGTTTTTATATTTCTTATTACATTACAGAATTGTAACCACTTG
TTAGTGCAAGTAATTATTCATAGACTAGCTTCCGAAACCTCTGTCTAG
ACTCTCTACTACTAGGTTTCTATTTCTGTCTTGTTCAGTTGGACTTTA
GTTGGTTTGTATGTAATAAGGAAAGGAGATCCCCTCAAATTGCTTCAA
ATAAAGAATGCTGTTTTAAAGATAGATATGGCTCTGTTGAGGGCTAGAA
ATCTTGGGCACCAATATCTGTCTTGGAGAGTGTCTTCTCTCCATCTATCC
AATAT

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GACCTCCAGCAAGTCGCTTCACTTCTCTGAGCTGTTTTTCAGACGACCCCT
TGGAAGATCGTGGACTTAAGTAAAGAATATGAGTAGAGTGCTCAGCTCAG
TGCAAAAATTAAAAAAGTGTGAGGAGCCTTATCCGTCCTTGGAT
CTTAACAGTGAATGAGTTTCAGTGTTC[C/T]TTTCCAGGGGCCCTGCTG
GCCGAGCCCCTTCCCTTCCCTGGTTCCTTCTCTCCCTCCTCTACTGCC
TCCTCCCTCCAGGCTCTCGGTCGCTCCAGCAAAGTTCCCACTTAGTCGA
CATGACGC

FIG. 10P2

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Start (B33)	Marker	Public alias	deCODE alias	Variation
167992779	DG5S87			
168014827	DG5S91			
168027019	DG5S1553			
168029068	SLT_703026		SG05S17	A/G
168034952	SLT_697143	rs1864953	SG05S7	C/G
168036088	SLT_696007	rs292487	SG05S44	A/T
168044802	SLT_687289	rs292488	SG05S9	C/T
168048470	SLT_683623		SG05S16	C/G
168051407	SLT_680684	rs898401	SG05S24	C/T
168055569	SLT_676522	rs1368354		C/G
168058856	SLT_673235	rs1864954	SG05S10	C/T
168058869	SLT_673223		SG05S228	A/T
168062704	SLT_669387	rs1314889		C/T
168065178	SLT_666913	rs1432804		G/T
168065189	DG5S1043			
168065529	DG5S92			
168070500	SLT_661589		SG05S15	C/T
168070584	SLT_661505			C/T
168070632	SLT_661457		SG05S14	C/T
168073885	SLT_658204	rs1155191	SG05S11	C/G
168074782	SLT_657307	rs1864952	SG05S12	A/G
168074812	SLT_657277		SG05S13	C/T
168080074	SLT_652015	rs2611845		C/T
168081175	DG5S491			
168082925	SLT_649164	rs2337550	SG05S26	A/G
168086306	SLT_645645	rs1460099		C/T
168090782	SLT_641364	rs1585399		C/T
168096386	SLT_636323	rs2116758	SG05S28	A/C
168098154	DG5S1047			
168102835	SLT_629874	rs2337552	SG05S27	A/G
168112060	SLT_621478	rs2304035		C/T
168116132	SLT_617406	rs1549910		A/G
168116213	SLT_617325	rs1549909		A/G
168116711	SLT_616823	rs870723		A/G
168121401	SLT_612136	rs891923		A/G
168123071	SLT_610466	rs2288798		A/G
168123214	SLT_610323			C/T
168123303	SLT_610234			C/T
168125044	SLT_608499			A/G
168128487	SLT_605050	rs1014194		G/T
168133445	SLT_600093	rs1298695		A/G
168136894	SLT_596643	rs2288792		A/G
168139425	DG5S9			
168143992	SLT_589545	rs871099	DG00AAHUW	A/G
168148230	SLT_585307	rs2292141		C/T
168148494	SLT_585043	rs891921	DG00AAIER	C/T
168148550	SLT_584969		DG00AAIEL	C/T
168152032	SLT_581505		SG05S21	C/T
168152504	SLT_581033			A/G
168152941	SLT_580597		SG05S19	A/T
168153523	SLT_580014			A/G

FIG. 11A

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168153946	SLT_579597		SG05S18	A/G
168154018	SLT_579519			A/G
168154461	SLT_579074		DG00AAIEM	A/G
168154722	SLT_578813		SG05S23	A/G
168158166	SLT_575368			C/G
168162085	DG5S1049			
168162812	DG5S1116			
168168958	SLT_564589		DG00AAIEN	A/G
168169017	SLT_564530		SG05S22	C/T
168180050	SLT_556437		DG00AAIEO	T ins
168185893	SLT_550503		DG00AAIEP	C/G
168185972	SLT_550582		SG05S20	A/G
168201434	SLT_537097	rs1979923		A/G
168205103	SLT_533429	rs1875971	DG00AAHUV	C/T
168212670	SLT_526304	rs1504954	DG00AAILW	A/T
168219891	DG5S1051			
168234201	SLT_504791	rs1466947	SG05S25	A/C
168245982	SLT_525276		DG00AAIMR	A/G
168266982	DG5S876			
168286866	DG5S97			
168288672	rs1982063	rs1982063	DG00AAFLD	A/G
168288956	rs891958	rs891958	DG00AAFCV	A/G
168315048	rs1036205	rs1036205	DG00AAFLA	A/G
168324273	D5S2052			
168324772	DG5S1120			
168327100	rs1432910	rs1432910	DG00AAFLN	A/G
168334817	DG5S1053			
168369069	DG5S879			
168375019	rs2163783	rs2163783	DG00AAFLM	A/G
168376530	DG5S880			
168378412	D5S400			
168387458	SLT_317099	rs731717		A/G
168390480	rs2879135	rs2879135	SG05S29	C/T
168395631	DG5S881			
168408798	rs1560666	rs1560666		C/T
168422609	DG5S1122			
168432072	rs2055911	rs2055911	DG00AAIMQ	A/G
168437381	rs188432	rs188432	DG00AAFKY	A/C
168437926	rs295985	rs295985	DG00AAFKW	C/T
168448832	rs296008	rs296008	DG00AAFDB	A/G
168460666	rs295998	rs295998		A/G
168462590	rs296001	rs296001	DG00AAFDA	G/C
168467031	rs295994	rs295994	DG00AAFLI	G/C
168469421	rs295997	rs295997	DG00AAFCW	A/C
168478938	rs295981	rs295981	DG00AAFLH	C/T
168483522	rs2668054	rs2668054	DG00AAFLB	A/G
168491409	rs188431	rs188431	DG00AAFLE	G/T
168499686	D5S2043			
168507409	rs297835	rs297835	DG00AAFLC	C/T
168513014	DG5S1056			
168517553	rs297825	rs297825	DG00AAFKZ	A/G
168526697	rs297818	rs297818	DG00AAFKX	G/C

FIG. 11B

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168530546	rs297823	rs297823	DG00AAFL	A/G	
168531494	rs297863	rs297863	DG00AAFLO	A/G	
168535394	SLT_169267	rs1006329		C/T	
168537647	rs297868	rs297868	DG00AAFLK	A/G	
168538316	rs182435	rs182435		G/T	
168554788	DG5S1058				
168555634	rs172472	rs172472	DG00AAFCY	C/T	
168555718	rs297898	rs297898	DG00AAFCX	G/T	
168565763	DG5S1060				
168569742	D5S2075				
168592111	DG5S883				
168607241	SLT_96349		DG00AAIHU	A/T	
168613336	SLT_90256	rs972031		A/G	
168613791	SLT_89801	rs1421764	DG00AAIHQ	A/G	
168627546	DG5S1645				
168663904	SLT_10323	rs1862217		C/T	
168666183	SLT_8967	rs1422028	DG00AAIHR	C/G	
168666252	SLT_8898	rs1422029	DG00AAIHV	C/G	
168666372	SLT_8778	rs1422030	DG00AAIHS	C/T	
168677067	SLT_278	rs1592818	DG00AAIHT	G/T	
168679845	SLT_rs1592817	rs1592817	SG05S445	A/G	
168683356	SLT_rs1024973	rs1024973	SG05S109	C/T	
168685815	SLT_rs1422032	rs1422032	SG05S110	A/G	
168692798	SLT_rs1422031	rs1422031	SG05S111	A/G	
168696369	SLT_rs1001869	rs1001869	SG05S960	A/G	
168705783	SLT_rs1422035	rs1422035	SG05S448	A/C	
168709664	SLT_rs1895203	rs1895203	SG05S961	A/G	
168710854	SLT_rs918408	rs918408	SG05S449	A/G	
168713378	SLT_rs1019461	rs1019461	SG05S963	C/T	
168714327	SLT_rs981957	rs981957	SG05S450	C/T	
168715977	DG5S38				
168719742	SLT_rs1422021	rs1422021	SG05S451	C/T	
168726284	SLT_rs1120391	rs1120391	SG05S119	A/G	
168726695	SLT_rs2338654	rs2338654	SG05S120	A/G	
168737548	rs2112330	rs2112330		A/G	
168751101	SLT_rs2112335	rs2112335	SG05S121	A/T	
168768610	SLT_rs1990893	rs1990893	SG05S122	C/T	
168770226	DG5S37				
168770326	SLT_rs1862215	rs1862215	SG05S123	A/G	
168776041	SLT_rs731398	rs731398	SG05S124	A/G	
168777278	SLT_rs2338527	rs2338527	SG05S125	A/G	
168778570	SLT_rs2112332	rs2112332	SG05S126	C/T	
168778626	SG05S458		SG05S458	A/G	
168778661	SG05S459		SG05S459	G/T	

FIG. 11C

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>D5S2043: 168499686 - 168499956

GATCTTGCCGGAATAGATACCCTTCCCCTGCTTCCCGCTGTGAAGAAGC
TGTTTCTNTCTCTCTCTCTCTCTCTCTCTCTCTCTGTGTGTGTGTG
TGTGTGTGTGTGTGTAGATAGAAAGAGAAGAGGGGGAGATTAATTGAGAG
AGAGAAGGGGAGAATGAACATTGGAATCCAATGAGGAAATGTCCTTGTA
GTNCCTATCCCATCCGTAGAGTTGGGCGAGGTAAAGTAGGTTCCCTGTGCT
TTTNAAGGCCTGATGGTCTGAATCTAAGGAGTCTTCCACAGAAGACCTG
TCATGAGAAGCTGTCGGGAAGTCCAGATTAAAGAAGCTCATGCATAATCA
TGCTCGCCCCTTGGTGAAGCTTTCTGG

>D5S2052: 168324273 - 168324633

GATCACCAGGGAATCTAGATGGAATCCATAGTNCTNCCCTGCAAGAATGC
TGCAATTCTGTACCGTGGAGNGCCAACAGAATCACCAGGCTCTGTGACT
CAGTCACAACACCCTGACCTGCCCTGTCCATTCTCCATATCATACCCAG
AGTGGTCTTTTCAAAGCACAGCTTTGACCAATTCTCTGTCTTTCACACAT
ACACACACACACACACACACACACATGCGTGCATGCATGCCTGAAATA
GTATAGTATTGCTCTTAAGATAAACATTAANGTTCCTACCATGGTACAGA
AAATATATGTNGTTAGGCCCGTGGCTCTTTCTTTCCAGACTCCTCTTA
CCCTTTTGTG

>D5S2075: 168569742 - 168570114

TATTGAAGGCACAAGAGTGTGAATGTGGAGCCCTTGCCTTCATCCACAA
TTGAAAATATGTTATTTGTGTTAGGTAACTACCTCTGTTTCATCCTANACT
GGCTCTAACTTGGAGATGACGTTGAATTCTTTTCAGGATGGACTTGGTGC
CGTATGTA
TGTGTATGTAAACAGAGAAAGATAGTGGTCCAGAGGCCAACACACCTGG
AATCTATTTGTGAGGGNCCCTGCNTCAGTCCACGAATTGGGCCATTCAAT
TATTTCTCAGTAAGTGAACATCTGGGATTCAGTTTGAAACGCCAATNAGT
TTGGATGGGATTTCAAAGCT

>D5S400: 168378412 - 168378696

AGCTATGATCATGCCACTGCACTCCAGCCTGGCTGATAGAATGAGATTCT
GACTCAGAAAAATATAAACACACACACACACACACACACACACACACA
CACACACACACACAACCTTTCTGTCTGCCCCCTTGCTCTTCCTGTCCCA
TCTCTGCCTTTCTTCTTTCTCTTTGTCAAATCTCCTTCGTCTGCCTC
ACAAAGGCCAGTGAGCCCCAGCCGACAGGGAAGCCAGCAAATTAGG
AATTTCTTCACAAAGTTTTGAGTAGCT

>DG5S1043: 168065189 - 168065333

ACTTGGCACCAACCAAAGACCTGAAAAAGTATTTTAGTCACTCACATTCA
GCCCTGCCTCAGACCCCAAGCATCATCATCATCATCATCATCATCAT
CATCATCATCGCTATTATTTATGGAGCTGCCATTACATGCTAGG

FIG. 12A

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>DG5S1047: 168098154 - 168098393
AATGCAGGAATCCAGGAAGAATTTTAAGTGGCATGATCCAATTCTCATT
TAGAAATACTACCCTGGAGGAAGAAGAAGAGAATGAACAGCAAGAGGAAC
ATTATCTTTCAATAAGCTATGTGTATTATTGGATGGAGATGTGTGTGTGT
GTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTATCTATCTGTCTATAT
GTATGTGTATGTATATTTAAAATGTGTTGGCCACCAGTG

>DG5S1049: 168162085 - 168162330
ATTTGAGCCAGTGTGCAAGGAAGACAGTGTCTGACATATCAAAAGCCCTC
AATAAATGGTAAATGTTTCATATTATCACCACCACCACCACCACCAATGTT
TCCACACACTCCAGGACCTTTTAACCAGGTGACTTGCAGACATGCCCTG
TGCCGGCCGTGCCCTGCCAGGCTCCCTGGCATCATGTTGACTTCTGTAT
TGCTAGAAATATATTGTGTTTAGTCACATGTTTGCAAATGACAGA

>DG5S1051: 168219891 - 168220039
GCCATAGTCCGACAAGGTCAAATATCCTTGTCATCTGATTCCTGAGCAAA
CTGTTTTTATTTTCCACTAAATCACATCATCTTAAAACAAAACAAAACA
AAACAAAACAAAACAAAACAAAACAAAACCTCTACTGCTGGCAAATGAGAAA

>DG5S1053: 168334817 - 168334988
CCATAATCCACCCAGTTGCTCCAGCCAAAAACCTAAGACTCTTTCTTTTC
TGATTTCTCTCTTCACACACACACACACACACACACACACACACACAC
ACATGTTGTCCTGCAGCTAGCCATCAACAAGCCAGGTTGAATCTAACTCC
TTACCTGATCCCTCAAGGTCG

>DG5S1056: 168513014 - 168513140
CTGCTCCATTACTCCATTCAAAGTTTGTACATCCCTATGTGAGGTAAGGG
TGT
GGGAAATTGTTCCCTCGATCCCAGTCT

>DG5S1058: 168554788 - 168555167
GTTGTGGCCACCATTCTCATTCCCAGTGGTTGCATTTAATGCCTACTTGT
GCAGCCAAACACTGCATATAGGCTCTGGGATAAATTGGGAAACATGAAAC
ACATGTCAGTGTGTGCACTTACGAATGAGTTCTGAATTAGGAATATATAT
TTCTATATGTCTATACACACACACACACACACACACACACACACAGAG
ACTATATACATAAATTTATTTTAAAAGGGCACTTTGCTGGAACAAGAACA
GGCAAGGGTTGGCTGGTATTCCAATCATGCAGTGGTCTCGCTTGCCTTCT
CTAGGACACACCTGCACTTTGTGAGGTCTCCTCTTGCTGTGTGCCCCATC
TCTCTGGCTCAGTCGCCCTAGCTGACTTT

FIG. 12B

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>DG5S1060: 168565763 - 168566015

TGGTCTGACTGCCTGAAATGGATCTGGCCAGCTCTGAAGTTATAAATGAC
TATTAACCTTGCATGTACATTATTATCTGCTGTGTGTGTGTGTGTGTGT
GTGTGTGTGTGTGTGTGCACATTCACATGCACGCATAAATATGTGCTTTC
TTCCACCCTAGATATGTTTTCTTGGAGTCTGAGCCCTAGTGTACTAATAT
ATACCCTTGACAATCTTCTGGGGCTCCCCAGAGACCCATGCCCTTGACT
TT

>DG5S1116: 168162812 - 168163199

AAACATGTAAACTGGATGGGAGAGTCTAATACACTTTACCTTTCTTTCTT
TCTTTCTTTTTTTTGAGACAGAATTTTGCTCTCATTGCCCAGGCTAGAGT
GCAATGGTGTGATCTTGGCTCACTGCAACCTCCGCCTCCCAGGTTCAAGT
GATTCTCCTATCTCAGCCTCCCAAGTAGCTGGGATTACAGACACCCACCA
CCATGCCCAGCTAATTTTTTTGTATTTTAGTAGAGATGGGTTTCACCGT
GTTGGCCAGGCTGGTCTCAAACCTCCTGACCTCAGGTGATCCAACCGCCTC
AGCCTCCCAAAGTGCTGGGATTACAGGCGTGAGCCACTGCGCCCAGCCAA
CAGTCTACCTTTCTGAAGAACCATGAGGACCAATGGT

>DG5S1120: 168324772 - 168324983

AAGAGAAAGGCGGGAAACAGAACAGCCTCCCATAAATCATTATTTGTCTG
GGGAAAAAGTCTCTGACAGATATGTGGGGTACCACTGTGTGTGTGTGTAT
GTGTGTGTGTGTGTGTGTGTGTGTGTGTGGGGTGGGGGGTGTGGTTTGATT
TCCAAGGCAGAATTTCACTGTCTGATCCTGTCTGGAGGGCAGAATGCTTG
TGCTCTCCACA

>DG5S1122: 168422609 - 168423023

TTTGGGCTGATATAGACTGGGTAGTTCATAAGCAACAAAATTTATTTCTC
AGTGTTTTTTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT
CTGTCACCCAGGCTGGAGTACAATGGTGCGATCTTGGCTCACTGCAACCT
CTACCTCCTGGGTTCAAGTGATTCTCCTGCCTCAGCCTCCCAAGTAGCTG
GGACTACAGGTGTGTGTGCCACCACACCCAGCTAATCTTTGTATTTTAG
TAGAGACAGGGTTTACCGTGTTGACCAAGCTGGTCTTGAGCTCCTGACT
TCAGATGATTCACCGGCCTTGGCCTCCCAAAGGGCTGGGATTACAGCCAT
GAGCCGCTGCGCGTGGCCTATTTCAAACAGTTCTAGACACTGGAAGTTCC
AGATCAGGATGCCA

>DG5S37: 168770226 - 168770418

GCAGGGACCAGAGTTGGTAAATATGCAGATGTGGAACCTCAGGTTATGG
AGGGCCTACTGTACGTGTGTGTGTGTGTGTGTGTGTGTGTGTATATAGTT
AACATTTGCAGTGCACAGATATTTTCATCCCCTTCCCTGAAGATGAGGAG
GTGAAGATGGCTACACAACAGTCTCATGGCAGGTTAGCTGGT

FIG. 12C

>DG5S38: 168715977 - 168716367

>DG5S491: 168081175 - 168081342

>DG5S876: 168266982 - 168267134

>DG5S879: 168369069 - 168369202

>DG5S880: 168376530 - 168376775

>DG5S881: 168395631 - 168395815

FIG. 12D

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>DG5S883: 168592111 - 168592265

ACTGCTCCTCTCCCTCATCATCACGGCCCAAGAGTGATGAATAAGGA
GAGAGAGAGAGAGAGAGAGAGAGAAGAATTTATTTGACTAAGTACGCT
TTACATTTTACTCATTGGCTTTAGTCCATCTCTTAGGTCAAACATCCCA
TGCC

>DG5S9: 168139425 - 168139680

TGATGTGGTGTGGTGTGGTATGGGGGGTGTGTGTGTGTGTGTGTGTGT
GTGTGTGTGTGTGTGTGTGTGTATGAAATTTTCCAATTTTAAAACAGAGG
AGGATTGAAAAAACACATATATGTGGCATGACGCAAAATGCTGCAATAAG
GATTCCATCCTCAGGCTATCAAATGGGCACCTCTGACCTGTTGTGTACTG
AATAGTTCAGTGTTCCTTGACAAGATGATGTACTCAGAAGGCCCTGAATG
TCAAG

>DG5S91: 168014827 - 168015078

AAGCTCGGGTACTTCCTCCTACACATTACCTTGTTGGAATGTGTGTGTGT
GT
CTCCAGGCTGGAATGCAGCGGTGCAATCACAGCTCACAGCAGCCTCGAG
CTCCAGGCTCAAGTGATCCTCCACCTCAGCCTCCTGCATAGCTAGGAC
TACAGGCGTGCACCACCACACTCAGCTACCTTGTTGGATTTAATTGGCAC
C

>DG5S92: 168065529 - 168065864

TTTAAAGGAAGCCAGTCAGGATTCCTGGCCATGTCCTACACACACACACA
CACACACACACACACACACACACACACACACACAAAGTGGGATG
AGGGGTAGAAAGTGTGGTGGAGGACCAAGGAGCACCACAAATCTGGTAGA
TTTGAGCAAAATGAGGCTGAAGAGAATTGAATCAGGCTAATTAACCAGGC
GTTGGCAATAGTGATTATTTTCAAGGAGAGGTAAGTGACAGAAATCCCC
ACTTCCAGGCCCAATTACCATGTCATCAAGCGCTAGGCTCTGCCTCCTGG
ATTTCTGTGCTTGGCGTAAAGGGCTGCAGGAGTTG

>DG5S97: 168286866 - 168287096

GGCAGAGGCAGAGTGAGCTACACACACACACACACACACATACACACACA
CACACCCTTACACACCCTTAAATGTTTCCTTATTAATTATACTGGCTTGCA
TTGAACTGAGGTGTAAGTGGTTCGATTTGGACTCCTTTCCTAAAAGAAGGG
TTTGAGAGGGGAGGAGTGAGAGAGATGGAGGGTACTGGGTCCCAACCCGC
AGGAAGGAGAGAAGCAGGACATGGGAAGAG

>DG5S1553: 168027019 - 168027156

CAATGGTGGGCCAAAGACGCAGGGAATAATGAAGGGAGAAAGAAAAGAAA
GGAAGATGGAGGAAAACGAGGCAACTGGAAGAAGGAAGGAAGGAAGAAG
GAAGGGATGGAGGGGATGAAGAGAAGGGAGAGAGGGA

FIG. 12E